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file registry	COST IN U.S. DOLLARS	ENTRY	SESSION	TOTAL
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STRUCTURE FILE UPDATES: 13 MAY 2002 HIGHEST RN 415678-09-0
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TRCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSelect searches.

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

E "ELK- " CN 25
E1 1 ELK RECEPTOR TYROSINE KINASE CN
E2 1 ELK RECEPTOR TYROSINE KINASE LIGAND CLONING ELK-1
GENE E1-3 PRECTRSOR) CN
E3 0 -- ELK-1 CN
E4 1 ELK-1 RECEPTOR TYROSINE KINASE CN
E5 1 ELKADUR CN
E6 1 ELKALOY ACN
E7 1 ELKAMICIN ACN
E8 1 ELKAN A120 CN
E9 1 ELKAN B103 CN
E10 1 ELKAN G102-10 CN
E11 1 ELKAN G102-6 CN
E12 1 ELKAN A211-3 CN
E13 1 ELKAPIN CN
E14 1 ELKEHEM CN
E15 1 ELKEN209 CN
E16 1 ELKEN940 CN
E17 1 ELKEN SAND CN
E18 1 ELKEN-MIKROSILKACN
E19 1 ELKINET CN
E20 1 ELKON FAST YELLOW GR CN

F21 1 ELKONITE CN
 F22 1 ELKONITE 10W3 CN
 F23 1 ELKONITE 1W3 CN
 F24 1 ELKONITE 20S CN
 F25 1 ELKONITE 2125C CN

F"ELK-L" CN 25

F1 1 ELK RECEPTOR TYROSINE KINASE CN
 F2 1 ELK RECEPTOR TYROSINE KINASE LIGAND (HUMAN CLONE HHLK-L-
 GEN-ELK-3-PRCTRSOR) CN
 F3 0 -- ELK-L CN
 F4 1 ELK-L RECEPTOR TYROSINE KINASE CN
 F5 1 ELKADLR CN
 F6 1 ELKALOY ACN
 F7 1 ELKAMICN ACN
 F8 1 ELKAN A120 CN
 F9 1 ELKAN B103 CN
 F10 1 ELKAN G102-10 CN
 F11 1 ELKAN G102-6 CN
 F12 1 ELKAN V A211-3 CN
 F13 1 ELKAPIN CN
 F14 1 ELKEEFM CN
 F15 1 ELKENI 209 CN
 F16 1 ELKENI 940 CN
 F17 1 ELKENI SAND CN
 F18 1 ELKENI-MIKROSIKIN ACN
 F19 1 ELKINET CN
 F20 1 ELKON FAST YELLOW GR CN
 F21 1 ELKONITE CN
 F22 1 ELKONITE 10W3 CN
 F23 1 ELKONITE 1W3 CN
 F24 1 ELKONITE 20S CN
 F25 1 ELKONITE 2125C CN

S F-4

F1 1 "ELK-L RECEPTOR TYROSINE KINASE" CN

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 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) N

F1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS

RN 149434-90-9 REGISTRY

CN Kinase (phosphorylating), gene elk protein (9CT) (CAINDELN NAME)

OTHER NAMES:

CN Elk kinase

CN Elk receptor tyrosine kinase

CN **Elk-L receptor tyrosine kinase**

CN EphA3 receptor tyrosine kinase

CN Gene elk protein kinase

CN Gene elk receptor protein tyrosine kinase

CN Gene elk receptor tyrosine kinase

CN Gene elk tyrosine kinase

MF Unspecified

CT MAN
 SR CA
 LC STN Files CA CAPLUS TOXCENTER (SPATITL)

*** STRUCTURE DIAGRAMS NOT AVAILABLE

47 REFERENCES IN FILE CA (1967 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 47 REFERENCES IN FILE CAPLUS (1967 TO DATE)

log ₁₀ COST IN U.S. DOLLARS	ENTRY	SESSION	SINCE FILE	TOTAL
FILE ESTIMATED COST		7.10	7.31	

STN INTERNATIONAL LOGOFF AT 08:26:00 ON 15 MAY 2002

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LOGINID:SSSPT:V1636DXS

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NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d.
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file registry	COST IN U.S. DOLLARS	ENTRY	SESSION	SINCE FILE	TOTAL
FILE ESTIMATED COST			0.21	0.21	

FILE "REGISTRY" ENTERED AT 09:29:35 ON 15 MAY 2002
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STRUCTURE FILE PDVITS 13 MAY 2002 HIGH STRN 415678-09-0
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USCAINFORM VITON NOW CTRPNT THROUGHT July 7, 2001

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<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

chk-1? en

FILE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt ()

s chk-1? en
1.1 0 FILE R-1? CN

s els-lke? en
1.2 0 FILE-LAKE? CN

s tcf en
1.3 0 TCF CN

s mapk
"MAPK" IS NOT A VALID FIELD CODE.
For a list of field codes for the current file, enter "HELP SHELL DS" at an arrow prompt ()

s mapk en
1.4 0 MAPK CN

F "MAPK" CN 25

E1 MAPKINITE (FE3ZN2(ASO4)3O2.12H2O) CN
E2 MAPKASTINE CN

E3 0 -- MAPK CN
E4 1 MAPK KINASE CN

E5 1 MAPK KINASE 3 CN
E6 1 MAPK KINASE 6 CN

E7 1 MAPK p97 CN
E8 1 MAPK PHOSPHATASE 1 CN

E9 1 MAPK PHOSPHATASE 3 CN
E10 1 MAPK PHOSPHATASE 4 CN

E11 1 MAPK PHOSPHATASE 7 CN
E12 1 MAPK PHOSPHATASE MKP-7 CN

E13 1 MAPK PHOSPHATASE MKP-7 (HUMAN CELL LINE JTKRAT) GENE MKP-7) CN
E14 1 MAPK PHOSPHATASE-2 CN

E15 1 MAPK PHOSPHATASE-5 CN
E16 1 MAPK-ACTIVATED PROTEIN KINASE CN

E17 1 MAPK-ACTIVATED PROTEIN KINASE (HUMAN OR ACTIVATED STRAIN NR01 GENE NAME) CN
E18 1 MAPK-ACTIVATED PROTEIN KINASE 2 CN

E19 1 MAPK-ACTIVATING DEATH DOMAIN-CONTAINING PROTEIN (HUMAN GENE) G20 SPLICE VARIANT 1) CN
E20 1 MAPK-UPSTREAN KINASE CN

E21 1 MAPK ERK KINASE CN
E22 1 MAPK ERK KINASE KINASE 1 CN

E23 1 MAPK ERK KINASE-2 CN
E24 1 MAPK ERK KINASE-3 CN

E25 1 MAPK ERK KINASE-5 CN
s E4

s E4
1.5 1 MAPK KINASE" CN

DIS 5.1 SQUIDE
THE ESTIMATED COST FOR THIS REQUEST IS \$53 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) N Y

15. ANSWER 1 OF 1. REGISTRY. COPYRIGHT 2002. ACS

RN 142805-58-1. REGISTER

CN Kinase (phosphorylating), mitogen-activated protein kinase (9CL) (CVA

INDEX NAME)

OTHER NAMES:

CN c-Raf-1 protein kinase

CN ERK8

CN Extracellular signal-regulated kinase protein kinase

CN Gene fu77 protein kinase

CN Gene fu77 serine threonine tyrosine kinase

CN Gene wsl1 MAPK kinase

CN Map kinase kinase

CN MAP kinase kinase

CN MAP kinase kinase 1

CN MAP kinase kinase Wsl1

CN MAP2K

CN **MAPK kinase**

CN MAPK-activated protein kinase 2

CN MAPK ERK kinase

CN MAPK

CN MAPK kinase

CN MEK

CN MEK kinase

CN MEK protein kinase

CN MEK tyrosine kinase

CN MEK-1 kinase

CN MEK-1 protein kinase

CN Microtubule-affinity-regulating kinase

CN Mitogen-activated protein kinase kinase

CN Mitogen-activated protein kinase kinase MEK

CN Mitogen-activated protein kinase extracellular signal-regulated kinase

kinase 1

CN p45 MAP kinase kinase

CN Protein kinase MEK

CN Protein kinase MEK-1

CN Protein kinase p45mapk

CN Wsl1 kinase

CN Wsl1 MEK

DR 146410-92-6

ME Unspecified

CL MAN

SR CA

IC STN Files. ADISNEWS, AGRICOLA BIOSIS, BIOTECINFO, C.A. CAPRI, ES, CTN,

EMBASE, PRONT, TONCENTER, TSPVPT11

*** STRUCTURE DIAGRAMS NOT AVAILABLE

2729 REFERENCES IN FILE CVA(1967 TO DATE)

8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CVA

2746 REFERENCES IN FILE CAPLUS (1967 TO DATE)

FIGAL-4" CN 25

E1 1 GAL-BETA1.3-GALNAC-ALPHA2.3-SIALYLTRANSFERASE (PIG CLONE

ST30) CN

E2 1 GAL-BETA1.3-GALNAC-ALPHA2.3-SIALYLTRANSFERASE (RAT CLONE

ST3N-1) CN

E3 0 -- GAL-4 CN

E4 1 GAL-C4-CHOL CN

E5 1 GAL-ALPHA1.3GAL-BETA1.4GLCNAC-BETA1.3GAL-BETA1.4GLC-BETA1-

CER CN

E6 1

GM-ALPHA1.3GAL-BETA1.4GLCNAC-BETA1.3GAL-BETA1.4GLCNAC-BETA1.3GAL-BE

TAL.4GLCBI-CER CN

E7 1 GAL-BETA1.3(4)GLCNAC-ALPHA2.3-SIALYLTRANSFERASE (HU MAN

CLONE ST3NHP-1) CN

E8 1 GAL-BETA1.3(4)GLCNAC-ALPHA2.3-SIALYLTRANSFERASE (HU MAN

PLACENTA CLONE ST3NHP-1) CN

E9 1 GAL-BETA1.3(4)GLCNAC-ALPHA2.3-SIALYLTRANSFERASE (RAT CLONE

ST3N-1) CN

E10 1 GAL-BETA1.3GALNAGAL-BETA1.4GLCNAC-ALPHA2.3-

SIALYLTRANSFERASE (HU MAN CLONE HST30-1) CN

E11 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (HU MAN

CLONE HST30-1) CN

E12 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (HU MAN

REDUCED) CN

E13 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (MOTSE

BRAIN) CN

E14 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (PIG CLONE

1.AMBDAST1.1.AMBDAST2) CN

E15 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (RAT

BRAIN) CN

E16 1 GAL-BETA1.3GALNAGAL-SPECIFIC GALNAC-ALPHA2.6-

SIALYLTRANSFERASE (CHICKEN TESTES CLONE PCDB3SD) CN

E17 1 GAL-BETA1.3GALNAGAL-ALPHA2.3-SIALYLTRANSFERASE (MOTSE CLONE

PH82.3-SD) (FC 2.4.99.4) CN

E18 1 GAL-BETA1.3GALNAGAL-BETA1.4GLCNAC-ALPHA2.3-

SIALYLTRANSFERASE (HU MAN CLONE ST3-1) CN

E19 1 GAL-BETA1.3GALNAGAL-BETA1.4GLCNAC-ALPHA2.3-

SIALYLTRANSFERASE (HU MAN PLACENTA CLONE STZ-11.0NG-A ISOFORM) CN

E20 1 GAL-BETA1.3GALNAGAL-BETA1.4GLCNAC-ALPHA2.3-

SIALYLTRANSFERASE (HU MAN PLACENTA CLONE STZ-2. SHORI ISOFORM) CN

E21 1 GAL-BETA1.3GALNAGAL-BETA1.4GLCNAC-ALPHA2.3-

SIALYLTRANSFERASE (HU MAN PLACENTA CLONE STZ-41.0NG-B ISOFORM) CN

E22 1 GAL-BETA1.4GLCNAC-BETA1.6GAL-BETA1.3GALNAGAL-ALPHA2.6-

ST6GALNAGALNAGAL-ALPHA2.6-SIALYLTRANSFERASE (HU MAN GENE

ST6GALNAGALNAGAL) CN

E24 1 GAL-BETA1.3GALNAGAL-3,6-ST6TRANSFERASE (HU MAN GENE GAL3ST-

4) CN

E25 1 GAL-BETA1.4(PTCA)ALPHA1.3(4)GLC-BETA1.3(4)GLC-BETA1.6(6)GL-BETA1-

ICER CN

- E1ERK-1" CN 25

E1 1 ERK RECEPTOR TYROSINE KINASE CN

E2 1 ERK RECEPTOR TYROSINE KINASE 11QAND (HU MAN CLONE) H1ERK1

E3 0 -- ERK-1 CN

14 1 H-K-1 RECEPTOR TYROSINE KINASE CN
 15 1 ELKADTR CN
 16 1 ELKADOT ACN
 17 1 ELKADICTA CN
 18 1 ELKANA120 CN
 19 1 ELKANA103 CN
 110 1 ELKANG102-10 CN
 111 1 ELKANG102-6 CN
 112 1 ELKANA A21-3 CN
 113 1 ELKAPIN CN
 114 1 ELKEFEM CN
 115 1 ELKENI 209 CN
 116 1 ELKENI 940 CN
 117 1 ELKENI SAND CN
 118 1 ELKENI-MIKROSHAKA CN
 119 1 ELKINET CN
 120 1 ELKON EAST YH110W GR CN
 121 1 ELKONITE CN
 122 1 ELKONITE 10W3 CN
 123 1 ELKONITE 1W3 CN
 124 1 ELKONITE 208 CN
 125 1 ELKONITE 21250 CN

P-ETSD-1Kb" CN 25

14 1 ETS TRANSCRIPTION FACTOR TTF-2F (HUMAN PROSTATE GLAND GENE
 114-20) CN
 12 1 ETS-GS CN
 13 0 -- ETS-1Kb CN
 14 1 ETS-RPT AIED PROTEIN ELK-1 (CHICKEN) CN
 15 1 ETS2M CN
 16 1 ETSAN CN
 17 1 ETSAN-HEXITRE MIXT CN
 18 1 ETSB 6000 CN
 19 1 ETSB 7000 CN
 110 1 ETSB CN
 111 1 ETSB 9078 CN
 112 1 ETSBACN
 113 1 ETSB CN
 114 2 ETSN CN
 115 1 ETSN CN
 116 1 ETSN1 CN
 117 1 ETSN CN
 118 1 ETSN CN
 119 1 ETSNGITE CN
 120 1 ETSNGITE CAG61A0116(2)(SO4)3 261120) CN
 121 1 ETSRGL CN
 122 1 ETSRGL TRIACETATE CN
 123 1 ETSRGL TRINITRATE CN
 124 1 ETTT CN
 125 1 ETTT CN

P-TCF" CN 25

11 1 TCFPb CN
 12 1 TCF TETRAFLUOROBORATE CN

E3 0 -- TCF CN
 E4 1 TCF 050 CN
 E5 1 TCF 408 CN
 E6 1 TCF 703 CN
 E7 2 TCF CN
 E8 1 TCG (METAL) CN
 E9 1 TCG (NITRATE) CN
 E10 1 TCG 1 CN
 E11 1 TCG 1 (METAL) CN
 E12 1 TCG 1156 CN
 E13 1 TCG 1837 CN
 E14 1 TCG 374-2 CN
 E15 1 TCG 7-6 CN
 E16 1 TCG 7R CN
 E17 1 TCH CN
 E18 1 TCH 100 CN
 E19 1 TCH 68-1 CN
 E20 1 TCH 68-2 CN
 E21 1 TCH2 CN
 E22 1 TCHIBANGENSINE CN
 E23 1 TCHIBATIN CN
 E24 1 TCHIBATINE CN
 E25 1 TCHIZH CN

file medline caplus biosis
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ENTRY SINGLE FILE TOTAL
SESSION 24.62 24.83

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s 142805-58-1 m
 RN IS NOT A VALID FIELD CODE
 RN IS NOT A VALID FIELD CODE
 16 2738 142805-58-1 RN

s map (w) kinase
 17 28420 MAPK(W) KINASE

d his

(FILE HOMIE ENTERED AT 09:29:23 ON 15 MAY 2002)

FILE REGISTRY ENTERED AT 09:29:35 ON 15 MAY 2002
 11 05 ELK-12 CN
 12 05 ETS-1Kb CN

13 0 STCE CN
14 0 S MAPK CN
15 1 S F4
16 1 "GAL-4" CN 25
17 1 "ELK-1" CN 25
18 1 "ETS-1" CN 25
19 1 "CP" CN 25

FILE "MEDLINE CAPTUS BIOSIS" ENTERED AT 09:34 05 ON 15 MAY 2002
16 2738 S 142805-58-1 RN
17 28420 S MAPK(W)KINASE

s elk-1
18 1273 ELK-1

s ets-1 (s) transcription
19 108 ETS-1 (K) (S) TRANSCRIPTION

s ets transcription
110 1109 TCE(S) TRANSCRIPTION

e gal-4

11 1 GALKY BI
12 47680 GALKY BI
13 0 -- GALK-4 BI
14 7 GALKY BI
15 2026 GALKY BI
16 818 GALKY BI
17 1 GALKY BI
18 19 GALKY BI
19 216 GALKY BI
110 1 GALKY BI
111 6 GALKY BI
112 1 GALKY BI

e gal-4

11 1 GALKY BI
12 1 GALKY BI
13 6871 -- GALKY BI
14 1 GALKY BI
15 1 GALKY BI
16 1 GALKY BI
17 2 GALKY BI
18 2 GALKY BI
19 3 GALKY BI
110 10 GALKY BI
111 2 GALKY BI
112 1 GALKY BI

s gal-4 or gal-4

111 6883 GALKY OR GALKY

dhs

(FILE "JOIE" ENTERED AT 09:29:23 ON 15 MAY 2002)

FILE "REGISTRY" ENTERED AT 09:29:35 ON 15 MAY 2002

11 0 S ELK-1 CN
12 0 S ETS-1 (K) CN
13 0 STCE CN
14 0 S MAPK CN
15 1 S F4
16 1 "GAL-4" CN 25
17 1 "ELK-1" CN 25
18 1 "ETS-1" CN 25
19 1 "CP" CN 25

FILE "MEDLINE CAPTUS BIOSIS" ENTERED AT 09:34 05 ON 15 MAY 2002

16 2738 S 142805-58-1 RN
17 28420 S MAPK(W)KINASE
18 1273 S ELK-1
19 108 ETS-1 (K) (S) TRANSCRIPTION
110 1109 STCE(S) TRANSCRIPTION

e gal-4

111 6883 S GALKY OR GALKY

s reporter
112 81176 REPORTER

s luciferase
113 32103 LUCIFERASE

s l8(s) 11
114 26 L8(S) 111

s l9(s) 11
115 0 L9(S) 111

s l10(s) 11
116 11 L10(S) 111

s l14 or l15
117 26 L14 OR L15

dup rem 17
PROCESSING COMPLETED FOR 117
118 11 DTP REM 117 (15 DUPLICATES REMOVED)

dhs 111

118 ANSWER 1 OF 11 MEDLINE

DTP LOCATE 1

11 Estradiol receptor-mediated activation of the serum response element in
MCF-7 cells through MAPK-dependent phosphorylation of Elk-1

SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Apr 13) 276(15) 11590-8

Journal code: HUY; 2985121R; ISSN: 0021-9258

118 ANSWER 2 OF 11 MEDLINE DT:PLIC:VTE 2

T1 High glucose-enhanced mesangial cell extracellular signal-regulated protein kinase activation and alpha1(IV) collagen expression in response to endothelin-1: role of specific protein kinase C isozymes.

SO JDIABETES. (2001 Oct) 50 (10) 2376-83.
Journal code: E8N; 0372763 ISSN: 0012-1797.

118 ANSWER 3 OF 11 MEDLINE DT:PLIC:VTE 3

T1 T ropoelysaccharide activation of the MEK-ERK1/2 pathway in human mesothelial cells mediates tissue factor and tumor necrosis factor alpha expression by inducing Elk-1 phosphorylation and Egr-1 expression.

SO BIOLOGY. (2001 Sep 1) 98 (5) 1429-39
Journal code: A8G; 7603569 ISSN: 0006-4971

118 ANSWER 4 OF 11 MEDLINE DT:PLIC:VTE 4

T1 The antihypertensive cyanidin and delphinidin are potent inhibitors of the epidermal growth-factor receptor

SO JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. (2001 Feb) 49 (2) 958-62.
Journal code: H3N; 0374755 ISSN: 0021-8561.

118 ANSWER 5 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

T1 TGF-beta activation of the MEK-ERK1/2 MAPK pathway in human monocyte cells induces Egr-1 gene expression: Role in the induction of inflammatory mediators.

SO Blood. (November 16, 2000) Vol 96, No 11 Part 1, pp. 667a. print.
Meeting Info: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology
ISSN: 0006-4971.

118 ANSWER 6 OF 11 CAMPUS COPYRIGHT 2002 ACS

T1 Cytosolic and Erk-1 synergistically transactivate the c-fos serum response element

SO BMC Cell Biol. (2000) 1, No pp. given
CODEN: JBCBMLVY, ISSN: 1471-2121
URL: <http://www.biomedcentral.com/content/pdf/1471-2121-1-2.pdf>

118 ANSWER 7 OF 11 MEDLINE DT:PLIC:VTE 5

T1 Protein phosphatase 2A suppresses MAP kinase signalling and ectopic protein expression

SO CELLULAR SIGNALING. (1999 Aug) 11 (8) 575-80
Journal code: AVB; 8904681 ISSN: 0898-6568

118 ANSWER 8 OF 11 MEDLINE DT:PLIC:VTE 6

T1 p38 Mitogen-activated protein kinase mediates the transcriptional induction of the atrial natriuretic factor gene through a serum response element: A potential role for the transcription factor ATF6

SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1998 Aug 7) 273 (32) 21636-43
Journal code: HHV; 2985121R ISSN: 0021-9258

118 ANSWER 9 OF 11 MEDLINE DT:PLIC:VTE 7

T1 Growth factor-induced transcription via the serum response element is inhibited by cyclic adenosine 3',5'-monophosphate in MCF-7 breast cancer

cells.

SO ENDOCRINOLOGY. (1997 Jun) 138 (6) 2219-26
Journal code: EGZ; 0375040 ISSN: 0013-7227.

118 ANSWER 10 OF 11 MEDLINE DT:PLIC:VTE 8

T1 Functional role of extracellular signal-regulated protein kinases in gastric acid secretion.

SO AMERICAN JOURNAL OF PHYSIOLOGY. (1997 Dec) 273 (6 Pt 1) G1263-72
Journal code: J3H; 0370511 ISSN: 0002-9513.

118 ANSWER 11 OF 11 MEDLINE DT:PLIC:VTE 9

T1 Tumor-inducible Egr-1 transcription in retinal inner medullary collecting duct (mMCD3) cells is mediated by extracellular signal-regulated kinase activation.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. (1996 Oct 1) 93 (20) 11242-7.
Journal code: PV3; 7505876 ISSN: 0027-8424.

d fibroab 97.6,5,4,3,1

118 ANSWER 9 OF 11 MEDLINE DT:PLIC:VTE 7

ACCESSION NUMBER: 97307662 MEDLINE
DOI: 10.1093/ajph/97.307662 PubMed ID: 9165002

TITLE: Growth factor-induced transcription via the serum response element is inhibited by cyclic adenosine 3',5'-monophosphate in MCF-7 breast cancer cells.

COMMENT: Comment in: Endocrinology. 1997 Jun;138(6):2217-8
AUTHOR: Lowe W L, Jr, Fu R, Banko M

CORPORATE SOURCE: Department of Medicine, Veterans Administration Chicago Healthcare System and Northwestern University Medical School, Chicago, Illinois 60611, USA. mlowe@northwestern.edu

SOURCE: ENDOCRINOLOGY. (1997 Jun) 138 (6) 2219-26
Journal code: EGZ; 0375040 ISSN: 0013-7227.

PTB, COUNTRY: United States

LANGUAGE: English
FILE SOURCE: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 199706
ENTRY DATE: Entered STN: 19970630

Last updated on STN: 20000303
Entered Medicine: 19970617

AB: The effect of increased intracellular cAMP on MCF-7 breast cancer cell growth was examined by treating cells with either forskolin, an activator of adenylyl cyclase, or 8-(4-chlorophenylthio)-cAMP (8-CPT-cAMP), a cAMP analog. Compared to cells maintained in control medium, treatment with either 1 or 10 microM forskolin decreased cell growth by 17% and 68%, respectively, whereas treatment with 250 microM 8-CPT-cAMP decreased cell growth by 29%. To determine whether this effect of cAMP on cell growth was mediated by inhibition of the activity of extracellular signal-regulated kinases 1 and 2 (ERK1 and -2), two mitogen-activated protein kinases, the effect of cAMP on growth factor-induced ERK activity in MCF-7 cells was examined. Treatment with either insulin-like growth factor 1 (IGF-1) or

epidermal growth factor (EGF) for 10 min stimulated a 4- to 8-fold increase in ERK1 and -2 activity. This effect of IGF-I and EGF was not inhibited by increased intracellular cAMP generated by pretreatment of the cells with 10 microM forskolin. Similarly, 10 microM forskolin had no effect on IGF-I- or EGF-induced ERK activity in cells treated with growth factor for 30 min. To determine whether cAMP inhibits other growth factor-mediated effects, its effect on the activity of the serum response element (SRE), a DNA promoter element whose activity is regulated by a variety of growth-promoting events, was examined. For these assays, MCF-7 cells were transiently transfected with pTK81-SRE-luc, a luciferase fusion gene that contains the SRE, cloned 5' to a minimal thymidine kinase promoter, and the luciferase gene. Treatment with either IGF-I or EGF increased pTK81-SRE-luc activity in a dose-dependent fashion. Pretreatment of cells with 10 microM forskolin decreased IGF-I- and EGF-stimulated luciferase activity by approximately 75%. An intermediate effect was observed using 1 microM forskolin. When intracellular cAMP levels were increased using 8-CPA-cAMP, similar results were obtained. SRE activity is dependent upon the activation by phosphorylation of a ternary complex factor, included among the ternary complex factors is **Elk-1**. When MCF-7 cells were cotransfected with a vector that expresses a **Gal4-Elk-1** fusion protein and **Gal4** DNA recognition sites cloned 5' to a thymidine kinase promoter and the luciferase gene, treatment with forskolin partially inhibited the activation of **Elk-1** by IGF-I and EGF. These data demonstrate that in MCF-7 breast cancer cells, cAMP has no effect on IGF-I- or EGF-induced ERK activity, but it inhibits growth factor-induced transcription. Taken together with the effects of cAMP on IGF-I- and EGF-induced **Elk-1** activation, these data suggest that the effect of cAMP on SRE activity occurs distal to ERK activation, possibly via inhibition of an ERK-independent pathway. Finally, these data indicate that the effect of increased intracellular cAMP on breast cancer growth may be mediated through inhibition of specific growth factor-induced effects, including gene transcription.

118 ANSWER 7 OF 11 MEDLINE: DPLICATE 5

ACCESSION NUMBER: 1999360900 MEDLINE:

DOCUMENT NUMBER: 99360900 PubMed ID: 10433518

TITLE: Protein phosphatase 2A suppresses MAP kinase signalling and ectopic protein expression.

AUTHOR: Chung H, Brautigan DL.

CORPORATE SOURCE: Center for Cell Signalling, University of Virginia,

Charlottesville 22908, USA.

SOURCE: CELLULAR SIGNALING (1999 Aug) 11 (8) 575-80.

JOURNAL CODE: AVB, 8904083 ISSN: 0898-6568

PII: COGNITIVE: ENGLISH: United Kingdom

JOURNAL: Article (JOURNALS, ARTICLES)

LANGUAGE: English

FILE SPECIFICATION: Priority Journals

ENTRY MONTH: 199910

ENTRY DATE: Entered STM: 19991026

Last updated on STM: 19991026

Entered Medline: 19991012

AB: Signalling by MAP kinase was examined in COS-7 cells by transiently

expressing a transcription reporter system plus epitope-tagged protein phosphatase 2A catalytic subunit [(HA)3-PP2Ac]. Transactivation of a luciferase gene by **GAL4-Elk-1** in serum-stimulated cells was reduced 20-fold by co-expression of wild type (HA)3-PP2Ac. This reduction of MAP kinase signalling required specific type-2A phosphatase activity, because the effects were not mimicked by co-expression of either a mutated, inactive (HA)3-PP2Ac or wild-type PP2Ac delta. Expression of (HA)3-PP2Ac was severely restricted by its own activity because 3-fold more inactive (HA)3-PP2Ac was produced. In a different assay the kinase activity of ELA-AG-ERK2 was 4-fold lower when co-transfected with (HA)3-PP2Ac, compared to controls. Unexpectedly, mRNA of the reporter constructs were nearly eliminated by even low level expression of (HA)3-PP2Ac in either COS7 or HEK293 cells. The results show that PP2A activity is strictly regulated and can be a limiting factor in ectopic expression of various proteins.

118 ANSWER 6 OF 11 CAPLIS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001792927 CAPLIS

TITLE: C-EBPBeta and Elk-1 synergistically transactivate the c-fos serum response element

AUTHORS: Hanlon, Mary; Bundy, Linda M.; Sealy, Linda

CORPORATE SOURCE: Department of Molecular Physiology and Biophysics,

Vanderbilt University School of Medicine, Nashville,

TN, USA

SOURCE: BMC Cell Biol. (2000), 1, No pp. given

CODEN: BCBMAY; ISSN: 1471-2121

URL: [http://www.biomedcentral.com/content/pdf/1471-](http://www.biomedcentral.com/content/pdf/1471-2121-1-2.pdf)

2121-1-2.pdf

PUBLISHER: BioMed Central Ltd.

DOCUMENT TYPE: Journal (online computer file)

LANGUAGE: English

AB: Background: The serum response element (SRE) in the c-fos promoter is a

convergence point for several signaling pathways that regulate induction of the c-fos gene. Many transcription factors regulate the SRE, including serum response factor (SRF), ternary complex factor (TCF), and

CCAAT enhancer binding protein-beta (C/EBP beta). Independently, the

TCFs and C/EBP beta have been shown to interact with SRF and to respond

to Ras-dependent signaling pathways that result in transactivation of the

SRF. Due to these common observations, we addressed the possibility that

C/EBP beta and Elk-1 could both be necessary for Ras-stimulated

transactivation of the SRE. Results: In this report, we demonstrate that

Elk-1 and C/EBP beta functionally synergize in

transactivation of both a **Gal4** reporter plasmid in concert with

Gal4-SRF and in transactivation of the SRE. Interestingly, this

synergy is only observed upon activation of Ras-dependent signaling pathways.

Furthermore, we show that **Elk-1** and C/EBP beta could interact both in an

in vitro GST-pulldown assay and in an in vivo co-immunoprecipitation assay. The

in vivo interaction between the two proteins is dependent on the presence

of activated Ras. We have also shown that the C-terminal domain of

C/EBP beta and the N-terminal domain of **Elk-1** are necessary for the

proteins to interact. Conclusions: These data show that C/EBP beta and

Elk-1 synergize in SRF-dependent transcription of both a **Gal4** reporter

and the SRE. This suggests that SRF, TCF, and C/EBP beta are all

necessary for maximal induction of the c-fos SRE in response to mitogenic

signaling by Ras

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118. ANSWER 5 OF 11 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER 2001332077 BIOSIS

DOI NUMBER PREFIX200100322077

TITLE LPS activation of the MEK-ERK1/2 MAPK pathway in human

monocyte cells induces Egr-1 gene expression. Role in the induction of inflammatory mediators.

AUTHORS: Guha M (1), O'Connell M (1), Hollis A (1), McGovern P (1), Mackman N (1)

CORPORATE SOURCE: (1) The Scripps Research Institute, San Diego, CA USA

SOURCE: Blood (November 16, 2000) Vol 96, No 11 Part 1, pp 607a print

Meeting Info: 42nd Annual Meeting of the American Society of Hematology, San Francisco, California, USA December 01-05, 2000 American Society of Hematology

ISSN 0006-4971

DOI NUMBER TYPE Conference

LANGUAGE: English

SEMINARY 1. ANNOTATION: English

ABSTRACT LPS induces human monocytes to express many proinflammatory mediators, including the cytokine TNF and the procoagulant molecule tissue factor (TF). We have shown that Egr-1 and NF-kappaB Rel transcription factors mediate LPS induction of TNF and TF gene expression. In this study, we investigated the role of the MEK-ERK1/2 MAPK pathway in LPS induction of TNF and TF gene expression in human monocyte cells. The MEK1 inhibitor PD98059 reduced LPS induction of TNF and TF expression in a dose-dependent manner. PD98059 did not affect LPS-induced nuclear translocation of NF-kappaB Rel proteins and minimally affected LPS induction of kappaB-dependent transcription. In contrast, PD98059 strongly inhibited LPS induction of Egr-1 expression. LPS induction of the Egr-1 promoter was mediated by a approx 300 bp region that contained three SRE sites (SRE3-5). One of these sites (SRE4) bound a LPS-inducible complex that contained SRE and Elk-1. LPS induced phosphorylation of Elk-1 and increased the functional activity of a GAL4

-Elk-1-TA chimera protein. Activation of Elk-1 was inhibited by PD98059. Our data indicate that LPS activation of the MEK-ERK1/2 pathway and Egr-1 gene expression is required, together with activation of pre-existing NF-kappaB Rel complexes, for maximal induction of the TNF and TF genes in human monocyte cells.

118. ANSWER 4 OF 11 MEDLINE DTPLICATE 4

ACCESSION NUMBER 2001285773 MEDLINE

DOI NUMBER 21162838 PubMed ID: 11262056

TITLE The anthocyanidins cyanidin and delphinidin are potent inhibitors of the epidermal growth-factor receptor.

AUTHORS: Meyers S, Krenn M, Weyand U, Gaspar R, von Angerer H, Marko D

CORPORATE SOURCE: Department of Chemistry, Division of Food Chemistry and Environmental Toxicology, University of Kaiserslautern, Erwin-Schroedinger-Strasse 52, 67663 Kaiserslautern.

Germany

SOURCE: JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY (2001 Feb) 49

(2) 958-62.

Journal code: JFON; 0374755, ISSN: 0021-8561.

PIB COLLECTIVE: United States

JOURNAL: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200105

ENTRY DATE: Entered STN: 20010529

Last Updated on STN: 20010529

Entered Medline: 20010524

ABSTRACT The aglycons of the most abundant anthocyanins in food, cyanidin (cy) and delphinidin (del), were found to inhibit the growth of human tumor cells in vitro in the micromolar range, whereas malvidin (mv), a typical anthocyanidin in grapes, was less active. The aglycons preferentially inhibited the growth of the human vulva carcinoma cell line A431, overexpressing the epidermal growth-factor receptor (EGFR). The glycosides cyanidin-3-beta-D-galactoside (cy-3-gal, idanin) and malvidin-3-beta-D-glucoside (mv-3-glc, oenin) did not affect tumor cell growth up to 100 micromolar. The tyrosine kinase activity of the EGFR, isolated from A431 cells, was potently inhibited by cy and del. Mv and the glycosides cy-3-gal and mv-3-glc were inactive up to 100 micromolar. In intact cells the influence of anthocyanin treatment on downstream signaling cascades was investigated by measuring the phosphorylation of the transcription factor Elk-1. A431 cells were transiently transfected with a luciferase reporter gene construct whose expression is controlled by MAP kinase pathway dependent phosphorylation of a GAL4-Elk-1 fusion protein. We found that cy and del inhibited the activation of the GAL4-Elk-1 fusion protein in the concentration range where growth inhibition was observed. Thus, the anthocyanidins cy and del are potent inhibitors of the EGFR, shutting off downstream signaling cascades. These effects might contribute substantially to the growth-inhibitory properties of these natural food constituents.

118. ANSWER 3 OF 11 MEDLINE DTPLICATE 3

ACCESSION NUMBER 2001491800 MEDLINE

DOI NUMBER 21411459 PubMed ID: 11520792

TITLE Lipopolysaccharide activation of the MEK-ERK1/2 pathway in human monocyte cells mediates tissue factor and tumor necrosis factor alpha expression by inducing Elk-1 phosphorylation and Egr-1 expression.

AUTHORS: Guha M, O'Connell M, A Pawlinski R, Hollis A, McGovern P, Yan S, Stern D, Mackman N

CORPORATE SOURCE: Department of Immunology, The Scripps Research Institute, La Jolla, CA 92037, USA

CONTRACT NUMBER: HL48872 (NIH/HL)

SOURCE: BLOOD (2001 Sep 1) 98 (5) 1429-39

Journal code: ABG; 7603509 ISSN: 0006-4971.

PIB COLLECTIVE: United States

JOURNAL: Journal Article (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH 200110
ENTRY DATE Entered STN 20010906
Last Updated on STN 20011008
Entered Medline 20011004

AB Lipopolysaccharide (LPS) induces human monocytes to express many proinflammatory mediators, including the procoagulant molecule tissue factor (TF) and the cytokine tumor necrosis factor alpha (TNF-alpha). The TF and TNF-alpha genes are regulated by various transcription factors, including nuclear factor (NF)-kappaB Rel proteins and I-gf-1. In this study, the role of the MEK-ERK1/2 mitogen-activated protein kinase (MAPK) pathway in LPS induction of TF and TNF-alpha gene expression in human monocyte cells was investigated. The MAPK kinase (MEK)1 inhibitor PD98059 reduced LPS induction of TF and TNF-alpha expression in a dose-dependent manner. PD98059 did not affect LPS-induced nuclear translocation of NF-kappaB Rel proteins and minimally affected LPS induction of kappaB-dependent transcription. In contrast, PD98059 and dominant-negative mutants of the Ras-Raf1-MEK-ERK (extracellular signal-regulated kinase) pathway strongly inhibited LPS induction of I-gf-1 expression. In kinetic experiments LPS induction of I-gf-1 expression preceded induction of TF expression. In addition, mutation of the I-gf-1 sites in the TF and TNF-alpha promoters reduced expression of these proinflammatory genes. It was demonstrated that LPS induction of the I-gf-1 promoter was mediated by 3 SRF sites, which bound an LPS-inducible complex containing serum response factor and Elk-1. LPS stimulation transiently induced phosphorylation of Elk-1 and increased the functional activity of a GAL4-Elk-1-TA chimeric protein via the MEK-ERK1/2 pathway. The data indicate that LPS induction of I-gf-1 gene expression is required for maximal induction of the TNF-alpha and TF genes in human monocyte cells.

118 ANSWER 1 OF 11 MEDLINE DUTPLICATE 1
ACCESSION NUMBER 2001287501 MEDLINE
DOI NUMBER 21192198 PubMed ID: 11145955
TITLE Estrogen receptor-mediated activation of the serum response element in MCF-7 cells through MAPK-dependent phosphorylation of Elk-1
AUTHOR Duan R, Nie W, Burghardt R C, Safe S
CORPORATE SOURCE Department of Veterinary Physiology and Pharmacology, Texas A&M University, College Station, Texas 77843-4466, U.S.A.
CONTROLLING NUMBER E509106 (NHLHS)
E509253 (NHLHS)
SOURCE JOURNAL OF BIOLOGICAL CHEMISTRY. (2001 Apr 13) 276 (15) 11590-8
Journal code: JBCV 2985121R ISSN: 0021-9258.
PUB COUNTRY: United States
JOURNAL: Article, (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH 200105
ENTRY DATE Entered STN 20010529
Last Updated on STN 20010529
Entered Medline 20010524

AB 17beta-Estradiol (E2) induces c-fos protooncogene expression in MCF-7 human breast cancer cells, and deletion analysis of the c-fos promoter

showed that the serum response element (SRE) at -325 to -296 was E2-responsive. The mechanism of ligand-activated estrogen receptor alpha (ERalpha)-dependent activation of gene expression through the SRE was determined by mutational analysis of the promoter; analysis of mitogen-activated protein kinase (MAPK) pathway activation by E2, and transforming growth factor alpha (TGF-alpha) as a positive control. In addition, ERalpha-negative MDA-MB-231 breast cancer and Chinese hamster ovary cells were used as reference cell lines. The results showed that transcriptional activation of the SRE by E2 was due to ERalpha activation of the MAPK pathway and increased binding of the serum response factor and Elk-1 to the SRE. Subsequent studies with dominant negative Elk-1, wild type, and variant GAL4-Elk-1 fusion proteins confirmed that phosphorylation of Elk-1 at serines 383 and 389 in the C-terminal region of Elk-1 is an important downstream target associated with activation of an SRE by E2. Both E2 (ERalpha-dependent) and growth factors (ERalpha-independent) activated the SRE in breast cancer cells via the Ras-MAPK pathway; however, in ER-negative CHO cells that do not express a receptor for TGF-alpha, only hormone-induced activation was observed in cells transfected with ERalpha.

cf his

(FILE HOMEPAGE ENTERED AT 09:29:23 ON 15 MAY 2002)

- FILE REFERENCE ENTERED AT 09:29:35 ON 15 MAY 2002
- 1.1 0 S ELK-1? CN
 - 1.2 0 S ETS-LIKE? CN
 - 1.3 0 S TGF CN
 - 1.4 0 S MAPK CN
 - 1.5 1 SE4
 - 1.6 GAL-4" CN 25
 - 1.7 ELK-1" CN 25
 - 1.8 ETS-LIKE" CN 25
 - 1.9 TGF" CN 25
 - 1.10 TGF" CN 25

- FILE MEDLINE CAPTIONS ENTERED AT 09:34:05 ON 15 MAY 2002
- 1.6 7738 S 142805-58-1 RN
 - 1.7 28420 S MAPK(W)KINASE
 - 1.8 1273 S ELK-1
 - 1.9 108 S ETS-LIKE(S) TRANSCRIPTION
 - 1.10 1109 S TGF(S) TRANSCRIPTION
 - 1.11 E GAL-4
 - 1.12 6883 S GAL-4 OR GAL-4
 - 1.13 81176 S REPORTER
 - 1.14 32103 S LUCIFERASE
 - 1.15 26 S L8(S) L1
 - 1.16 9 S T9(S) L1
 - 1.17 11 S L10(S) L1
 - 1.18 26 S L14 OR L15
 - 1.19 11 DUP RN L17 (15 DUTPLICATE(S) REMOVED)

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F1 1 VEGETATIVE MYCELIN HYDROPHOBIN 3 (PIETROTT'S OSTREACEUS
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F2 1 VEGETON CN

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F4 1 VEGET (CHICKEN) CN

F5 1 VEGET (HUMAN 148-AMINO ACID ISOFORM) CN

F6 1 VEGET (HUMAN 183-AMINO ACID ISOFORM PRECURSOR) CN

F7 1 VEGET (RAT) NORVEGETUS 110-AMINO ACID ISOFORM) CN

F8 1 VEGET (DROSOPHILA MELANOGASTER GENE PVF1) CN

F9 1 VEGET (HUMAN 115-AMINO ACID) CN

F10 1 VEGET 2 (DROSOPHILA MELANOGASTER GENE PVF2) CN

F11 1 VEGET B (HUMAN ISOFORM B167 PRECURSOR) CN

F12 1 VEGET C CN

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 STRAIN N001 GENE VMI3 PRECURSOR) CN

F2 1 VEGETON CN

F3 0 -- VEGET CN

F4 1 VEGET (CHICKEN) CN

F5 1 VEGET (HUMAN 148-AMINO ACID ISOFORM) CN

F6 1 VEGET (HUMAN 183-AMINO ACID ISOFORM PRECURSOR) CN

F7 1 VEGET (RAT) NORVEGETUS 110-AMINO ACID ISOFORM) CN

F8 1 VEGET 1 (DROSOPHILA MELANOGASTER GENE PVF1) CN

F9 1 VEGET 115 (HUMAN 115-AMINO ACID) CN

F10 1 VEGET 2 (DROSOPHILA MELANOGASTER GENE PVF2) CN

F11 1 VEGET B (HUMAN ISOFORM B167 PRECURSOR) CN

F12 1 VEGET C CN

F13 1 VEGET D (HUMAN) CN

F14 1 VEGET D1 (MOTSE) CN

F15 1 VEGET D2 (MOTSE) CN

F16 1 VEGET RECEPTOR (DROSOPHILA MELANOGASTER GENE PVF1) CN

F17 1 VEGET RECEPTOR (HUMAN GENE F17-4) CN

F18 1 VEGET RECEPTOR 2 (RAT) NORVEGETUS CLONAL RPT.R2053 SHORT
 ISOFORM) CN

F19 1 VEGET RECEPTOR 2 (RAT) NORVEGETUS CLONAL RPT.R3600) CN

F20 1 VEGET RECEPTOR TYROSINE KINASE CN

F21 1 VEGET RECEPTOR TYROSINE KINASE 1 CN

F22 1 VEGET RECEPTOR TYROSINE KINASE 2 CN

F23 1 VEGET-2, PREPRO-(HUMAN) CN

F24 1 VEGET-2, PRO-(HUMAN) CN

F25 1 VEGET-B (HUMAN ISOFORM B186 PRECURSOR) CN

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1 "VEGET (HUMAN 148-AMINO ACID ISOFORM) CN

1 "VEGET (HUMAN 183-AMINO ACID ISOFORM PRECURSOR) CN

119 2 "VEGET (HUMAN 148-AMINO ACID ISOFORM) CN OR "VEGET (HUMAN 183-
 AMINO ACID ISOFORM PRECURSOR) CN

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119 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS

RN 252974-32-6 REGISTRY

CN Vascular endothelial growth factor (human 148-amino acid isoform
 precursor) (9CI) (CALDEX NAME)

OTHER NAMES:

CN GenBank M5091352-derived protein (GI 5901561

CN VEGET (human 148-amino acid isoform)

ES PROTEIN SEQUENCE

SEQ 174

SEQ 1 MENSEL SWIM SLALIM III AKM SQAVMA FGGGQNHIV VRINDV QRS

51 YCCHPETH VIDEQVYPIDEH YIEKPSCVPL MRCGCCCNDE GLECVPTHEES
101 NIIMQIARIK PHIGQIHGEM SEIQHNKCEC RPKKDRARQE NCGPSERR
151 KIH EVQDPOT CKCSCKNTDS RCKNI
NI Unspecified
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11 0 SHK-12 CN
12 0 STS-LIKE? CN
13 0 STCF CN
14 0 S MAPK CN
15 1 SH-4
F "GAL-4" CN 25
F "H1K-1" CN 25
F "H1S-LIKE" CN 25
F "TCF" CN 25

FILE MEDLINE CAPLTS BIOSIS ENTERED AT 09:34:05 ON 15 MAY 2002

16 2738 S 142805-58-1 RN
17 28420 S MAPK(W)KINASE
18 1273 S H1K-1
19 108 S ETS-LIKE?(STRANSRIPTION
110 1109 STCF(STRANSRIPTION
F GAL-4
F GAL-4

111 6883 S GAL-4 OR GAL-4
112 81176 S REPORTER
113 32103 S LUCIFERASE
114 26 S 186S 11
115 0 S 196S 11
116 11 S 1106S 11
117 26 S 114 OR 115
118 11 DUTP R 11 17 (15 DUTP LUCIFES RENOVIED)

FILE REGISTRY ENTERED AT 09:51:52 ON 15 MAY 2002

F VEGF CN

FILE MEDLINE CAPLTS BIOSIS ENTERED AT 09:53:36 ON 15 MAY 2002

FILE REGISTRY ENTERED AT 09:53:44 ON 15 MAY 2002

119 F "VEGF" CN 25
2 S F 5 OR F 6

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120 2281 VEGF OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)
120 2281 VEGF OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)

121 295 120(P) 17
121 295 120(P) 17

122 81 20(P) 18
122 81 20(P) 18

123 0 120(P) 19
123 0 120(P) 19

124 0 20(P) 110
124 0 20(P) 110

125 0 120(P) 19
125 0 120(P) 19

126 0 20(P) 110
126 0 20(P) 110

dh 122 1-8

122 ANSWER 1 OF 8 MEDLINE

11 Acid extracellular pH induces vascular endothelial growth factor (VEGF)
in human glioblastoma cells via ERK1/2 MAPK signaling pathway: mechanism
of low pH-induced VEGF.

122 ANSWER 2 OF 8 MEDLINE

11 Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dog
retinal capillary endothelial cells.

122 ANSWER 3 OF 8 MEDLINE

11 Focal adhesion kinase, Kap1, and transcriptional induction of vascular
endothelial growth factor.

1 22 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dog
retinal capillary endothelial cells

1 22 ANSWER 5 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Focal adhesion kinase, Rap1, and transcriptional induction of vascular
endothelial growth factor

1 22 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS

11 Acidic extracellular pH induces vascular endothelial growth factor (VEGF)
in human glioblastoma cells via ERK1/2 MAPK signaling pathway: Mechanism
of low pH-induced VEGF

1 22 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS

11 Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dog
retinal capillary endothelial cells

1 22 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS

11 Focal adhesion kinase, Rap1, and transcriptional induction of vascular
endothelial growth factor

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1 25 ANSWER 1 OF 3 MEDLINE

DE PLICATE 1

11 Acidic extracellular pH induces vascular endothelial growth factor (VEGF)
in human glioblastoma cells via ERK1/2 MAPK signaling pathway: mechanism
of low pH-induced VEGF

1 25 ANSWER 2 OF 3 MEDLINE

DE PLICATE 2

11 Focal adhesion kinase, Rap1, and transcriptional induction of vascular
endothelial growth factor

1 25 ANSWER 3 OF 3 MEDLINE

DE PLICATE 3

11 Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dog
retinal capillary endothelial cells

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1 25 ANSWER 3 OF 3 MEDLINE

DE PLICATE 3

ACCESSION NUMBER 2001043622 MEDLINE

DOCTUMENT NUMBER 20431646 PubMed ID: 10977134

111111 Vascular endothelial growth factor (VEGF) enhances the
expression of receptors and activates mitogen-activated
protein (MAP) kinase of dog retinal capillary endothelial
cells

AUTHOR: Murata M, Kador P F, Sato S
CORPORATE SOURCE: Laboratory of Ocular Therapeutics, National Eye Institute,
National Institutes of Health, Bethesda, Maryland
20892-1850, USA

SOURCE: JOURNAL OF OCTOBER PHARMACOLOGY AND THERAPEUTICS, (2000
Aug)

16 (4) 383-91.

Journal code: CIBR, ISSN: 1080-7683.

PUBLICATION: United States

LANGUAGE: English

FILE SEQUENCE: Priority Journals

ENTRY MONTH: 200012

ENTRY DATE: Entered STN: 20010322

Last updated on STN: 20010322

Entered Medline: 20001207

AB: Since the galactose-fed dog is an animal model that develops the advanced
stage of proliferative retinopathy, the effects of **vascular
endothelial growth factor (VEGF)** on

cell growth, receptor expression and the activation of mitogen-activated
protein (MAP) kinase pathway of dog retinal capillary endothelial cells
were investigated. Dog retinal endothelial cells were cultured at 37

degrees C under 5% carbon dioxide atmosphere in C-S-C medium supplemented
with endothelial cell growth factor (ECGF). VEGF receptor

expression was examined by RT-PCR, and activation of MAP kinase was

examined with antibody against phospho-Erk-1 (Ser383).

When growth factors were removed from the culture medium, cell survival of

dog endothelial cells was significantly reduced. Addition of VEGF

protected these cells from cell death induced by growth factor starvation.

VEGF also enhanced tube formation in dog endothelial cells and

increased the expression of two VEGF receptors, Flt-1 and

KDR. Erk-1. Cells treated with VEGF also displayed the

phosphorylation of the transcription factor, **Erk-1**

Addition of the tyrosine kinase inhibitor, genistein, eliminated

VEGF-induced cell growth and **Erk-1**

phosphorylation. These data confirm that cell growth and tube formation of

dog retinal capillary endothelial cells are stimulated by VEGF

VEGF also increases the expression of the receptors, KDR and

Flt-1, and activates the p44/42 MAP kinase pathway.

du 1b ab 2

1 25 ANSWER 2 OF 3 MEDLINE

DE PLICATE 2

ACCESSION NUMBER 2000429884 MEDLINE

DOCTUMENT NUMBER 20341838 PubMed ID: 10880549

111111 Focal adhesion kinase, Rap1, and transcriptional induction
of vascular endothelial growth factor

COMMENT: Comment in: J Natl Cancer Inst. 2000 Jul 5;92(13):1030-1

AUTHOR: Sheta F A, Harding M A, Conway M R, Theodorescu D

CORPORATE SOURCE: Department of Molecular Physiology and Biological Physics,
University of Virginia Health Sciences Center,

Charlottesville 22908, USA

CONTRACT NUMBER: 1732DK07166-01 (NIIDDK)

SOURCE JOURNAL OF THE NATIONAL CANCER INSTITUTE (2000 Jul 5) 92
1331065-73
Journal code: J91, 7503089 ISSN: 0027-8874
PUB COUNTRY United States
Journal Article (JOURNAL ARTICLE)

LANGUAGE English
FILE SEQUENCE Priority Journals
ENTRY MONTH 200009
ENTRY DAY 11 Entered STN 200009222
Last Updated on STN 200009222
Entered Medline 200009114

AB BACKGROUND: Signals from a cell's environment are sensed by receptors, which activate pathways that, in turn, transmit the signals to the nucleus, informing decisions on growth, angiogenesis, and other cell functions. Transcription of **vascular endothelial growth factor (VEGF)**, a potent angiogenic factor, can be induced by cell-cell contact. In the current work, we sought to determine if this induction is dependent on transformation of cells to a malignant phenotype and subsequently to determine which signaling molecules mediate activation of VEGF transcription.

METHODS: Normal and transformed prostate epithelial cell lines were examined at various cell densities to simulate the effect of increased cell contact on expression of VEGF messenger RNA. Transformed cells were also cotransfected with a VEGF promoter-reporter construct and with constructs that express dominant negative or activated versions of signal transduction proteins hypothesized to be involved in the cell-cell contact process, and reporter activity was assessed at various cell densities. All P values are two-sided. RESULTS: Direct cell-cell contact, but not extracellular matrix components, resulted in transcriptional activation of a VEGF promoter-reporter construct in malignant (P = 0.001) but not in nonmalignant (P = .37) prostate cells. This process was mediated via a mitogen-activated protein kinase (MAPK); it required the activity of focal adhesion kinase (FAK). Rap1 and Raf and was Ras independent. In addition, transcriptional activation of a Ras-sensitive Elk-1 chimera reporter by cell-cell contact suggests that Rap1 is a key factor in regulating the specificity of convergent MAPK-signaling pathways arising from different upstream extracellular stimuli. CONCLUSIONS: Cell contact induction of VEGF transcription via FAK and Rap1 provides a novel Ras-independent, but transformation-dependent, mechanism for stimulus-specific regulation of tumor VEGF expression via MAPK.

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FILE HISTORY: ENTERED AT 09:29:23 ON 15 MAY 2002

FILE REGISTRY: ENTERED AT 09:29:35 ON 15 MAY 2002

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12 0 S L T S-1 L K E-2 CN
13 0 S T C F-1 CN
14 0 S M A P K-1 CN
15 1 M A P K-1 CN 25
15 1 S H-1

FILE AL-47 CN 25
FILE LK-17 CN 25
FILE TS-LIKE7 CN 25
FILE TCF7 CN 25

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16 2738 S 142805-58-1 RN
17 28420 S MAP2(W)KINASE
18 1273 S L K-1
19 108 S L T S-1 L K E-2(S) TRANSCRIPTION
110 1105 S T C F(S) TRANSCRIPTION
FILE AL-47
FILE AL-47

111 688 S G A L-4 OR G A L-4
112 8 176 S REPORTER
113 32103 S L T C F E R A S E
114 26 S L K(S) L 11
115 0 S L 9(S) L 11
116 11 S L 10(S) L 11
117 26 S L 14 OR L 15
118 11 D C P R E M L 17 (15 D C P L I C A T E S R E M O V E D)

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FILE VEGF CN

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FILE REGISTRY: ENTERED AT 09:53:44 ON 15 MAY 2002
FILE VEGF CN 25
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120 22811 S VEGF OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)
121 295 S L 20(P) L 7
122 3 S L 20(P) L 8
123 9 S L 20(P) L 9
124 9 S L 20(P) L 10
125 3 D C P R E M L 22 (5 D C P L I C A T E S R E M O V E D)

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IT Acidic extracellular pH induces vascular endothelial growth factor (VEGF)
in human glioblastoma cells via ERK1/2-MAPK signaling pathway - Mechanism
of low pH-induced VEGF

1.28 ANSWER 2 OF 3 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE
IT Focal adhesion kinase, Rap1, and transcriptional induction of vascular
endothelial growth factor

1.28 ANSWER 3 OF 3 SCISEARCH COPYRIGHT 2002 ISI (R) DUPLICATE
IT Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dog
retinal capillary endothelial cells

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1.33 ANSWER 1 OF 50 MEDLINE
IT Induction of VEGF Gene Expression by Retinoic Acid through Sp1-binding
Sites in Endothelial Y79 Cells.
SO INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE (2002 May) 43 (5) 1-67-
74.

Journal code 7703701, ISSN: 0146-0404.

du 1-50

1.33 ANSWER 1 OF 50 MEDLINE
IT Induction of VEGF Gene Expression by Retinoic Acid through Sp1-binding
Sites in Endothelial Y79 Cells

SO INVESTIGATIVE OPHTHALMOLOGY AND VISION SCIENCE. (2002 May) 43(5) 1367-74

Journal code: 7703701 ISSN: 0146-0404

I 33 ANSWER 2 OF 50 MEDLINE

TI Acidic extracellular pH induces vascular endothelial growth factor (VEGF) in human glioblastoma cells via ERK1/2 MAPK signaling pathway: mechanism of low pH-induced VEGF

SO JOURNAL OF BIOLOGICAL CHEMISTRY. (2002 Mar 29) 277(13) 1168-74

Journal code: 2985121R ISSN: 0021-9258

I 33 ANSWER 3 OF 50 MEDLINE

TI Differential expression of adenosine receptors in human endothelial cells: role of A2B receptors in angiogenic factor regulation

SO CIRCULATION RESEARCH. (2002 Mar 22) 90(5) 531-8

Journal code: 0047103 ISSN: 1524-4571

I 33 ANSWER 4 OF 50 MEDLINE

TI CD40 activation induces p53-dependent vascular endothelial growth factor secretion in human multiple myeloma cells

SO BLOOD. (2002 Feb 15) 99(4) 1419-27

Journal code: 7603509 ISSN: 0006-4971

I 33 ANSWER 5 OF 50 MEDLINE

TI Generation of bidirectional hypoxia HIF-responsive expression vectors to target gene expression to hypoxic cells

SO GENETHERAPY. (2001 Dec) 8(23) 1801-7

Journal code: 9421525 ISSN: 0969-7128

I 33 ANSWER 6 OF 50 MEDLINE

TI Expression of HIF-1alpha by human macrophages: implications for the use of macrophages in hypoxia-regulated cancer gene therapy

SO JOURNAL OF PATHOLOGY. (2002 Feb) 196(2) 204-12

Journal code: 0204634 ISSN: 0022-3417

I 33 ANSWER 7 OF 50 MEDLINE

TI Inducible expression of endothelial PAS domain protein-1 by hypoxia in human lung adenocarcinoma A549 cells: Role of Src family kinase-dependent pathway

SO AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. (2002 Jan) 26

Journal code: 8917225 ISSN: 1044-1549

I 33 ANSWER 8 OF 50 MEDLINE

TI Induction of interleukin-8 by Epstein-Barr virus latent membrane protein-1 and its correlation to angiogenesis in nasopharyngeal carcinoma

SO CLINICAL CANCER RESEARCH. (2001 Jul) 7(7) 1946-51

Journal code: 0732183X ISSN: 1078-0432

I 33 ANSWER 9 OF 50 MEDLINE

TI Regulation of vascular endothelial growth factor expression by acidosis in human cancer cells

SO ONCOLOGY. (2001 Jun 21) 20(28) 3751-6

Journal code: ONCO 8711562 ISSN: 0950-9232

I 33 ANSWER 10 OF 50 MEDLINE

TI Hypoxia induces vascular endothelial growth factor gene transcription in human osteoblast-like cells through the hypoxia-inducible factor-2alpha

SO ENDOCRINOLOGY. (2001 Feb) 142(2) 959-62

Journal code: EGGZ 0375040 ISSN: 0013-7227

I 33 ANSWER 11 OF 50 MEDLINE

TI Dual mechanism of vascular endothelial growth factor up-regulation by hypoxia in human hepatocellular carcinoma

SO GUT. (2001 Jan) 48(1) 87-96

Journal code: FVTJ ISSN: 0017-5749

I 33 ANSWER 12 OF 50 MEDLINE

TI Up-regulation of CD40 induces the expression of vascular endothelial growth factor by endothelial cells and monocytes and promotes angiogenesis in vivo

SO BLOOD. (2000 Dec 1) 96(12) 3801-8

Journal code: ABG ISSN: 0006-4971

I 33 ANSWER 13 OF 50 MEDLINE

TI Regulation of vascular endothelial growth factor (VEGF) gene transcription by estrogen receptors alpha and beta

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

AMERICA. (2000 Sep 26) 97(20) 10972-7

Journal code: PV3 ISSN: 0027-8424

I 33 ANSWER 14 OF 50 MEDLINE

TI Age-dependent defect in vascular endothelial growth factor expression is associated with reduced hypoxia-inducible factor-1 activity

SO JOURNAL OF BIOLOGICAL CHEMISTRY. (2000 Sep 22) 275(38) 29643-7

Journal code: JHY ISSN: 0021-9258

I 33 ANSWER 15 OF 50 MEDLINE

TI Epidermal growth factor receptor transcriptionally up-regulates vascular endothelial growth factor expression in human glioblastoma cells via a pathway involving phosphatidylinositol 3'-kinase and distinct from that induced by hypoxia

SO CANCER RESEARCH. (2000 Oct 15) 60(20) 5879-86

Journal code: CNE ISSN: 0008-5472

I 33 ANSWER 16 OF 50 MEDLINE

TI Anti-inflammatory effects of triptolide in human bronchial epithelial cells

SO AMERICAN JOURNAL OF PHYSIOLOGY. (2000 Nov) 279(5) 1958-66

Journal code: DKO ISSN: 1040-0605

I 33 ANSWER 17 OF 50 MEDLINE

TI Oncogenes and tumor angiogenesis: the HIF-1/VEGF gene promoter in a p53 vascular endothelial growth factor (VEGF) gene promoter in a p53

independent manner

SO ONCOGENE (2000 Sep 21) 19 (40) 4611-20.
Journal code: ONC: 0950-9232

I 33 ANSWER 18 OF 50 MEDLINE:
TI Reactive oxygen species generated at mitochondrial complex III stabilize
hypoxia-inducible factor-1alpha during hypoxia: a mechanism of O2 sensing.
SO JOURNAL OF BIOLOGICAL CHEMISTRY (2000 Aug 18) 275 (33) 25130-8.
Journal code: JBC: 2985121R ISSN: 0021-9258

I 33 ANSWER 19 OF 50 MEDLINE:
TI Wild-type p53 suppresses angiogenesis in human leiomyosarcoma and synovial
sarcoma by transcriptional suppression of vascular endothelial growth
factor expression
SO CANCER RESEARCH (2000 Jul 1) 60 (13) 3655-61
Journal code: CNE: 2984705R ISSN: 0008-5472

I 33 ANSWER 20 OF 50 MEDLINE:
TI Therapeutic efficacy of the suicide gene driven by the promoter of
vascular endothelial growth factor gene against hypoxic tumor cells
SO CANCER RESEARCH (2000 Jun 1) 60 (11) 2936-41
Journal code: CNE: 2984705R ISSN: 0008-5472

I 33 ANSWER 21 OF 50 MEDLINE:
TI Up-regulation of vascular endothelial growth factor receptor Flk-1 after
endothelial denudation: role of transcription factor Egr-1.
SO JBC (2000 Jun 1) 95 (11) 3387-95
Journal code: ABE: 7603509 ISSN: 0006-4971

I 33 ANSWER 22 OF 50 MEDLINE:
TI Fine finger transcription factor Egr-1 activates Flk-1 gene expression in
FTH-1 cells on induction for macrophage differentiation
SO APPLIED BIOLOGY (2000 Feb) 10 (2) 377-84
Journal code: B89: 9505803 ISSN: 1079-5642

I 33 ANSWER 23 OF 50 MEDLINE:
TI Hypoxia-induced transcriptional activation of vascular endothelial growth
factor is inhibited by serum
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (2000 Jan 7)
267 (1)
334-8
Journal code: NYX: 0372516 ISSN: 0006-291X

I 33 ANSWER 24 OF 50 MEDLINE:
TI Insulin-induced vascular endothelial growth factor expression in retina
SO INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE (1999 Dec) 40 (13) 3281-
6
Journal code: GWL: 7703701 ISSN: 0146-0404

I 33 ANSWER 25 OF 50 MEDLINE:
TI Hypoxia-induced elevation in interleukin-8 expression by human ovarian
carcinoma cells
SO CANCER RESEARCH (1999 Nov 15) 59 (22) 5822-9

Journal code: CNE: 2984705R ISSN: 0008-5472

I 33 ANSWER 26 OF 50 MEDLINE:
TI Flaxopirinol, a protein kinase inhibitor, down-regulates hypoxia induction
of vascular endothelial growth factor expression in human fibrocytes
SO CANCER RESEARCH (1999 Nov 1) 59 (21) 5433-7
Journal code: CNE: 2984705R ISSN: 0008-5472

I 33 ANSWER 27 OF 50 MEDLINE:
TI Role of protein kinase C isoforms in phorbol ester-induced vascular
endothelial growth factor expression in human glioblastoma cells.
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1999 May 28) 274 (22) 15407-14
Journal code: JBC: 2985121R ISSN: 0021-9258

I 33 ANSWER 28 OF 50 MEDLINE:
TI Enhancement of gene expression under hypoxic conditions using fragments of
the human vascular endothelial growth factor and the erythropoietin genes.
SO INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY, BIOLOGY, PHYSICS,
(1998 Nov
1) 42 (4) 913-6.
Journal code: G97: 7603616 ISSN: 0360-3016

I 33 ANSWER 29 OF 50 MEDLINE:
TI Hemologous up-regulation of KDR/Flk-1 receptor expression by vascular
endothelial growth factor in vitro.
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1998 Nov 6) 273 (45) 29970-85
Journal code: JBC: 2985121R ISSN: 0021-9258

I 33 ANSWER 30 OF 50 MEDLINE:
TI The vascular endothelial growth factor mRNA contains an internal ribosome
entry site.
SO FEBS LETTERS (1998 Sep 4) 434 (3) 417-20.
Journal code: FTH: 0155157 ISSN: 0014-5793

I 33 ANSWER 31 OF 50 MEDLINE:
TI Inhibition of hypoxia-inducible factor 1 activity by nitric oxide donors
in hypoxia.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED
STATES OF
AMERICA (1998 Jun 23) 95 (13) 7368-73.
Journal code: PV3: 7505876 ISSN: 0027-8424

I 33 ANSWER 32 OF 50 MEDLINE:
TI Identification of a human VPE-VEGF 3' untranslated region mediating
hypoxia-induced mRNA stability
SO MOLECULAR BIOLOGY OF THE CELL (1998 Feb 9) 9 (2) 465-81
Journal code: BMT: 9201390 ISSN: 1059-1524

I 33 ANSWER 33 OF 50 MEDLINE:
TI Activator-protein-1 binding potentiates the hypoxia-inducible factor-1-
mediated hypoxia-induced transcriptional activation of
vascular-endothelial growth factor expression in C6 glioma cells
SO BIOCHEMICAL JOURNAL (1997 Oct 15) 327 (Pt 2) 419-23
Journal code: NYO: 2984726R ISSN: 0264-6021

I 33 ANSWER 34 OF 50 MH-DI INF

II Differential transcriptional regulation of the two vascular endothelial growth factor receptor genes Flk-1, but not Flk-1 KDR, is up-regulated by hypoxia

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Sep 19) 272 (38) 21659-67
Journal code: JBC, 2985121R ISSN: 0021-9258

I 33 ANSWER 35 OF 50 MH-DI INF

II Oxygen- and dioxin-regulated gene expression in mouse hepatoma cells.

SO KIDNEY INTERNATIONAL (1997 Feb) 51 (2) 567-74
Journal code: KID, 0323470 ISSN: 0085-2538

I 33 ANSWER 36 OF 50 MH-DI INF

II Analysis of the promoter region of the human VEGF-related factor gene.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1997 Jan 13) 230 (2)
Journal code: BBRC, 0322516 ISSN: 0006-291X

413-8

I 33 ANSWER 37 OF 50 MH-DI INF

II Characterization of the endothelium-specific murine vascular endothelial growth factor receptor-2 (Flk-1) promoter

SO CIRCULATION (1996 Aug) 79 (2) 277-85
Journal code: CIRC, 0047103 ISSN: 0009-7330

I 33 ANSWER 38 OF 50 MH-DI INF

II Cloning and functional analysis of the promoter for KDR flk-1, a receptor for vascular endothelial growth factor

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1995 Sep 29) 270 (39) 2111-8
Journal code: JBC, 2985121R ISSN: 0021-9258

I 33 ANSWER 39 OF 50 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II CD40 activation induces p53-dependent vascular endothelial growth factor (VEGF) secretion in human multiple myeloma (MM) cells.

SO Blood (November 16, 2001) Vol 98, No. 11 Part 1, pp. 638a.
http: www.bloodjournal.org

Meeting Info: 43rd Annual Meeting of the American Society of Hematology, Part 1 (Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971

I 33 ANSWER 40 OF 50 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Monocytes rescue endothelial cells from apoptosis: Role of nuclear factor kappa-B (NF-kappaB)

SO Blood (November 16, 2001) Vol 98, No. 11 Part 1, pp. 16a.
http: www.bloodjournal.org

Meeting Info: 43rd Annual Meeting of the American Society of Hematology, Part 1 (Orlando, Florida, USA December 07-11, 2001
ISSN: 0006-4971

I 33 ANSWER 41 OF 50 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Regulation of VEGF gene expression by adenosine: Role of G proteins

SO FEBS Journal (March 7, 2001) Vol 15, No. 4, pp. A580 print
Meeting Info: Annual Meeting of the Federation of American Societies for

Experimental Biology on Experimental Biology 2001 (Orlando, Florida, USA
March 31-April 04, 2001
ISSN: 0892-6638

I 33 ANSWER 42 OF 50 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Hypoxia stimulates PNX1 gene expression.

SO Society for Neuroscience Abstracts (2000) Vol. 26, No. 1-2, pp. Abstract No. 19.2 print.

Meeting Info: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
ISSN: 0190-5295

I 33 ANSWER 43 OF 50 CAPLIS COPYRIGHT 2002 ACS

II Promoter of mouse vascular endothelial growth factor gene used in drug screening system for diabetes

SO Jpn Kokai Tokkyo Koho, 5 pp.
CODEN: JKNXAF

I 33 ANSWER 44 OF 50 CAPLIS COPYRIGHT 2002 ACS

II VEGF, VEGFR-2, and Tie2 promoters and reporter genes fused to these promoters for screening for angiogenesis-modulating compounds

SO PCT Int. Appl., 149 pp.
CODEN: PLNXD2

I 33 ANSWER 45 OF 50 CAPLIS COPYRIGHT 2002 ACS

II Targeting constructs for the generation of transgenic animals in which single-copy, non-essential gene is replaced with a reporter expression cassette

SO PCT Int. Appl., 96 pp.
CODEN: PLNXD2

I 33 ANSWER 46 OF 50 CAPLIS COPYRIGHT 2002 ACS

II Fusion proteins of transactivating transcription factors and their in expression of foreign genes in animal cells

SO PCT Int. Appl., 81 pp.
CODEN: PLNXD2

I 33 ANSWER 47 OF 50 CAPLIS COPYRIGHT 2002 ACS

II Methods for identifying vasoprotective agents using vascular endothelial cells transfected with reporter genes under control of estrogen-responsive elements

SO PCT Int. Appl., 63 pp.
CODEN: PLNXD2

I 33 ANSWER 48 OF 50 CAPLIS COPYRIGHT 2002 ACS

II Human gene flk-1 promoter sequence, VEGF receptor transcription regulation, endothelial-specific gene expression, and drug screening assay

SO PCT Int. Appl., 70 pp.
CODEN: PLNXD2

I 33 ANSWER 49 OF 50 CAPLIS COPYRIGHT 2002 ACS

II A reporter gene system for identifying morphogen analogs that activate the osteogenic protein-1-responsive element

SO PCT Int. Appl., 70 pp.
CODEN: PLNXD2

SO. JCT Int. Appl. 58 op
CODEN: PLENID2

133 ANSWER 50 OF 50 CAPLUS COPYRIGHT 2002 ACS
14 Reporter gene methods for identification of compounds that modulate
transcription of genes associated with cardiovascular disease
SO. JCT 93 pp. Cont. in-part of U.S. Ser. No. 555,196, abandoned
CODEN: USNNAI

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FILE: REGISTRY: ENTERED AT 09 29 35 ON 15 MAY 2002

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13 0 S1CF CN
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16 1 "GAL-4" CN 25
17 1 "F1K-1" CN 25
18 1 "F1S-LINK" CN 25
19 1 "TCP" CN 25

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16 2738 S142805-58-1 RN
17 28420 S1MAPK WORKIN ASS
18 1273 S11K1
19 108 S11S1K1P CN 25
110 1109 S1CF CN 25
111 1 G1M 4
112 6883 S G1M 4 OR G1M 4
113 81176 S REPORTR
114 32103 S11CFERASE
115 26 S1186 S111
116 0 S1196 S111
117 11 S1110 S111
118 26 S114 OR 115
119 11 DTP R1M117 (5 DTP L1C11S REMOVED)

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1 V1CF CN

FILE: MEDLINE: CAPLUS BIOSIS: ENTERED AT 09 53 36 ON 15 MAY 2002

FILE: REGISTRY: ENTERED AT 09 53 44 ON 15 MAY 2002
1 "V1CF" CN 25
119 2 S115 OR 16

FILE: MEDLINE: BIOSIS: CAPLUS: ENTERED AT 09 55 28 ON 15 MAY 2002
120 22811 S V1CF OR V1SCT LAR ENDOTHELIAL GROWTH FACTOR

121 295 S120(P)1.7
122 8 S120(P)1.8
123 0 S120(P)1.9
124 0 S120(P)1.10
125 1 DTP R1M122 (5 DTP L1C11S REMOVED)

INDEX: ADISALFERS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AOT, ASCI,
BIOSIS, BIOCINMERCE, BIOSIS, BIOTECHABS, BIOTCHIDS, BIOTCHINO,
CABA

CANCERITE, CAPLUS, CEABA-VTB, GEN, CIN, CONISCL, CROPH, CROPH, DDH,
DDE, DDENE, DDTGB, DDTGB, DDTGB, DDTGB, DDTGB, DDTGB, DDTGB, DDTGB, DDTGB,
15 MAY 2002

SEARCH-1

1 FILE AGRICOLA
2 FILE AOT, ASCI
1 FILE BIOCINMERCE
406 FILE BIOSIS
1 FILE BIOTECHABS
1 FILE BIOTCHIDS
227 FILE BIOTCHINO
8 FILE CABA
259 FILE CANCERITE
439 FILE CAPLUS
1 FILE CEABA-VTB
5 FILE CONFSCI
15 FILE DDE
99 FILE DDENE
28 FILE DDTGB
7 FILE DDTGB
294 FILE ENBASE
266 FILE ESBIORASE
2 FILE ESTA
90 FILE GENBANK
4 FILE HEPAT
3 FILE JICST-EP11S
205 FILE JICST
428 FILE MEDLINE
2 FILE NTIS
55 FILE PASCAL
26 FILE PRONT
385 FILE SCISEARCH
173 FILE TOXENTER
79 FILE TSP-VTETL
6 FILE WIPDS
6 FILE WIPDS
1 FILE WIPDS
6 FILE INVESTENT
2 FILE NIDB
126 Q1E1K-1

FILE: SCISEARCH: CANCERITE: ENBASE: ENTERED AT 10 07 34 ON 15 MAY 2002
127 7 S122

1 28 JDP REML 27 (4) DPLICATES REMOVED)

FILE NAME LINE BIOSIS, CAPLUS ENTERED AT 10:29:40 ON 15 MAY 2002

1 29 341 S1.206PJ 12

1 30 270 S1.206SJ 12

1 31 128 DTP RENL 30 (142) DPLICATES REMOVED)

1 32 32103 S11C1E1RASF

1 33 50 S1.31 ANDL 32

1290 SJ7

1 296 SJ7 IS NOT A RECOGNIZED COMMAND

The previous command entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt ().

S1290 SJ7

1 34 246 I 206S1 17

1346PJ 12

1 346PJ 12 IS NOT A RECOGNIZED COMMAND

The previous command entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt ().

S1346PJ 12

1 35 51 346PJ 12

d to so 1-5

1 35 ANSWER 1 OF 5 MEDLINE

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
induced by hypoxia.

SO CANCER RESE ARCH (2000 Oct 15) 60 (20) 5879-86.
Journal code CNE ISSN: 0008-5472.

1 35 ANSWER 2 OF 5 MEDLINE

11 Growth factor activation of the estrogen receptor in vascular cells occurs
via a mitogen-activated protein kinase-independent pathway.

SO JOURNAL OF CLINICAL INVESTIGATION (1998 Jun 15) 101 (12) 2851-61
Journal code HS7 7802877 ISSN: 0021-9738.

1 35 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
induced by hypoxia

SO Cancer Research (October 15, 2000) Vol. 60, No. 20, pp. 5879-5886, print
ISSN: 0008-5472

1 35 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Growth factor activation of the estrogen receptor in vascular cell occurs
via a mitogen-activated protein kinase-independent pathway

SO Journal of Clinical Investigation, (June 15, 1998) Vol. 101, No. 12, pp.
2851-2861
ISSN: 0021-9738.

1 35 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
induced by hypoxia

SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

d to so 1-5

1 35 ANSWER 4 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
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SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

1 35 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
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pathway involving phosphatidylinositol 3'-kinase and distinct from that
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SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

1 35 ANSWER 6 OF 5 CAPLUS COPYRIGHT 2002 ACS

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
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SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

1 35 ANSWER 7 OF 5 CAPLUS COPYRIGHT 2002 ACS

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
induced by hypoxia

SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

1 35 ANSWER 8 OF 5 CAPLUS COPYRIGHT 2002 ACS

11 Epidermal growth factor receptor transcriptionally up-regulates vascular
endothelial growth factor expression in human glioblastoma cells via a
pathway involving phosphatidylinositol 3'-kinase and distinct from that
induced by hypoxia

SO Cancer Research (2000), 60(20), 5879-5886
CODEN CNRAX8 ISSN: 0008-5472

I 38 of 119
 I 36 227918 OR 110
 S186(s)112
 I 37 268136(s)112
 S137 and 132
 I 38 81137 AND 132
 duprem 138
 PROCESSING COMPLETED FOR 138
 I 39 44 DTP REN 138 (37 DTP JC VTE'S REMOVED)
 dtp so 1-44
 I 39 ANSWER 1 OF 44 MEDLINE
 TI Acidic extracellular pH induces vascular endothelial growth factor (VEGF)₁₂₁ in human glioblastoma cells via ERK1/2-MAPK signaling pathway: mechanism of low pH-induced VEGF
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (2002 Mar 29) 277 (13) 11368-74
 Journal code 2985121R ISSN 0021-9258
 I 39 ANSWER 2 OF 44 MEDLINE
 TI Lithium induces gene expression through lymphoid enhancer-binding factor 1-cell factor responsive element in rat PC12 cells
 SO NEUROSCIENCE LETTERS (2002 Jan 4) 317 (1) 50-2
 Journal code 7600130 ISSN 0304-3940
 I 39 ANSWER 3 OF 44 MEDLINE
 TI Presenilin 1 regulates beta-catenin-mediated transcription in a glycogen synthase kinase-3-independent fashion
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Oct 19) 276 (42) 38563-9
 Journal code 2985121R ISSN 0021-9258
 I 39 ANSWER 4 OF 44 MEDLINE
 TI Induction-independent recruitment of CREB-binding protein to the c-fos serum response element through interactions between the bromodomain and ERK-1
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Feb 16) 276 (7) 5213-21
 Journal code 11V 2985121R ISSN 0021-9258
 I 39 ANSWER 5 OF 44 MEDLINE
 TI All E2F1/MG box transcription factors interact with Croucho-related co-repressors
 SO NUCLEIC ACIDS RESEARCH (2001 Apr 1) 29 (7) 1410-9
 Journal code 081 0411-011 ISSN 1362-4962
 I 39 ANSWER 6 OF 44 MEDLINE
 TI The Plc- β 3 subfamily of G-protein coupled receptors synergizes with beta-catenin-1, -2 to activate matrix metalloproteinase transcription in intestinal tumors
 SO MOLECULAR AND CELLULAR BIOLOGY (2001 Feb 21) 21 (4) 1379-83
 Journal code NGY 8109087 ISSN 0270-7306

I 39 ANSWER 7 OF 44 MEDLINE
 TI Reduced expression of Wnt-1 and E-cadherin, and diminished beta-catenin stability in MCF-7 breast cancer cells that overexpress protein kinase C- α
 SO INTERNATIONAL JOURNAL OF CANCER (2001 Dec 19) 96 (12) 1227-33
 Journal code 9306042 ISSN 1019-6439
 I 39 ANSWER 8 OF 44 MEDLINE
 TI Tumor suppressor PTEN inhibits nuclear accumulation of beta-catenin and T cell lymphoid enhancer factor 1-mediated transcriptional activation
 SO JOURNAL OF CELL BIOLOGY (2001 Jun 11) 153 (6) 1161-74
 Journal code 0375356 ISSN 0021-9525
 I 39 ANSWER 9 OF 44 MEDLINE
 TI The anthocyanidins cyanidin and delphinidin are potent inhibitors of the epidermal growth-factor receptor
 SO JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY (2001 Feb 4) 49 (2) 958-62
 Journal code H3N 0374755 ISSN 0021-8561
 I 39 ANSWER 10 OF 44 MEDLINE
 TI Characterization of the human UDP-galactose 4-epimerase/galactose-4-epimerase gene promoter
 SO BIOCHEMICAL BIOPHYSICAL ACTA (2001 Feb 16) 1517 (3) 416-23
 Journal code A0W 0217513 ISSN 0006-3002
 I 39 ANSWER 11 OF 44 MEDLINE
 TI Perturbation of the tight junction permeability barrier by occludin loop peptides activates beta-catenin/TCF-1/EF-mediated transcription
 SO EMBO REPORTS (2001 Apr 2) 2 (4) 306-12
 Journal code D0T 100963049 ISSN 1469-221X
 I 39 ANSWER 12 OF 44 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 TI TGF- β 1 binds to the promoter of neutrophil elastase gene to up-regulate its expression
 SO Blood (November 16, 2001) Vol 98, No. 11 Part 1, pp. 282a-283a
 http: www.bloodjournal.org print
 Meeting Info: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001
 ISSN 0006-4971
 I 39 ANSWER 13 OF 44 MEDLINE
 TI Mutant E-cadherin breast cancer cells do not display constitutive Wnt signaling
 SO CANCER RESEARCH (2001 Jan 1) 61 (1) 278-84
 Journal code CNF ISSN 0008-5472
 I 39 ANSWER 14 OF 44 MEDLINE
 TI Insulin and IGF-1 stimulate the beta-catenin pathway through two signalling cascades involving GSK-3beta inhibition and Ras activation
 SO ONCOGENE (2001 Jan 11) 20 (2) 252-9
 Journal code ONC 8711562 ISSN 0950-9232
 I 39 ANSWER 15 OF 44 MEDLINE
 DT T9 JC VTE 10

II Protein kinase C mu selectively activates the mitogen-activated protein kinase (MAPK) p42 pathway.

SO JEBBS LJ. *FEBS*. (2001 Mar 9) 492 (1-2) 39-44.
Journal code: *FEBS*. 0155157 ISSN: 0014-5793

I 39. ANSWER 16 OF 44 MEDLINE

II Transcriptional regulation by Smads: crosstalk between the TGF-beta and Wnt pathways

SO JOTIRAN VI OF IRONE AND IOINIF STRGERY. *AMERICAN VOI T M*. (2001) 83-A Suppl 1
(Pt 1) S31-9. Ref 40
Journal code: *HR*. 0014030 ISSN: 0021-9355

(Pt 1) S31-9. Ref 40

I 39. ANSWER 17 OF 44 MEDLINE

II A bombesin receptor subtype-3 peptide increases nuclear oncogene expression in a MEK-1 dependent manner in human lung cancer cells.

SO JI PROPI AN IOIRAN VI OF PII ARNI VOI OGIV. (2001 Jan 19) 412 (1) 13-20
Journal code: 1254354 ISSN: 0014-2999

I 39. ANSWER 18 OF 44 MEDLINE

II Raf, a non-lipid-modified Ras-related protein, transforms NIH3T3 cells without activating the ERK, JNK, p38 MAPK or PI3K/Akt pathways.

SO ONCOGENE. (2000 Sep 28) 19 (41) 4685-94
Journal code: *ONC* ISSN: 0950-9232

I 39. ANSWER 19 OF 44 MEDLINE

II Increased effect of interferon gamma on PDGF-induced c-fos gene transcription in glomerular mesangial cells: differential effect of the transcriptional coactivator CBP on STAT1alpha activation

SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. (2000 Jul 14) 273 (3) 1069-77
Journal code: *YR*. 0372516 ISSN: 0006-291X

I 39. ANSWER 20 OF 44 MEDLINE

II Characterization of hPR24 kinase activation: potential role in signaling.

SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. (2000 May 10) 271 (2) 456-63
Journal code: 0372516 ISSN: 0006-291X

I 39. ANSWER 21 OF 44 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II Transcriptional regulation and apoptosis induction by Tef/beta-catenin complex in various T-cells

SO Korean Journal of Biological Sciences. (December, 2000) Vol. 4, No. 4, pp. 489-394 print
ISSN: 1226-5071

I 39. ANSWER 22 OF 44 MEDLINE

II The transcriptional coactivator CBP interacts with beta-catenin to activate gene expression

SO JOIRAN VI OF CELI BIOLOGICAL. (2000 Apr 17) 149 (2) 249-54
Journal code: *BNV*. 0375356 ISSN: 0021-9525

I 39. ANSWER 23 OF 44 MEDLINE

II Atypical protein kinase C-zeta stimulates thyrotropin-independent proliferation in rat thyroid cells.

SO ENDOCRINOLOGY. (2000 Jun) 141 (1) 146-52.
Journal code: *EGZ*. 0375040 ISSN: 0013-7227

I 39. ANSWER 24 OF 44 MEDLINE

II Rat Eph receptor type 2 exhibits higher basal signaling activity than Eph receptor type 1.

SO ENDOCRINOLOGY. (1999 Oct) 140 (10) 4916-9
Journal code: *EGZ*. 0375040 ISSN: 0013-7227

I 39. ANSWER 25 OF 44 MEDLINE

II Regulation of MCL1 through a serum response factor Elk-1-mediated mechanism links expression of a viability-promoting member of the BCL-2 family to the induction of hematopoietic cell differentiation.

SO JOIRAN VI OF BIOLOGICAL CHEMISTRY. (1999 Jan 5) 274 (3) 1801-13
Journal code: *HNV*. 2985121R ISSN: 0021-9258

I 39. ANSWER 26 OF 44 MEDLINE

II Novel roles of specific isoforms of protein kinase C in activation of the c-fos serum response element.

SO MOLECULAR AND CELLULAR BIOLOGY. (1999 Feb) 19 (2) 1333-24
Journal code: 8109087 ISSN: 0270-7306

I 39. ANSWER 27 OF 44 MEDLINE

II Protein phosphatase 2A suppresses MAP kinase signalling and ectopic protein expression.

SO CELLULAR SIGNALING. (1999 Aug) 11 (8) 575-80
Journal code: *AVB*. 8904683 ISSN: 0898-6568

I 39. ANSWER 28 OF 44 MEDLINE

II Nitric oxide regulates shear stress-induced early growth response-1 expression via the extracellular signal-regulated kinase pathway in endothelial cells.

SO CIRCULATION RESEARCH. (1999 Aug 6) 85 (3) 238-46.
Journal code: *DAP*. 0047103 ISSN: 0009-7330

I 39. ANSWER 29 OF 44 MEDLINE

II The C-terminal transactivation domain of beta-catenin is necessary and sufficient for signaling by the Lef-1/beta-catenin complex in *Xenopus laevis*.

SO MECHANISMS OF DEVELOPMENT. (1999 Mar) 81 (1-2) 65-74
Journal code: *ANP*. 9101218 ISSN: 0925-4773

I 39. ANSWER 30 OF 44 MEDLINE

II Direct regulation of the *Xenopus* engrailed-2 promoter by the Wnt signaling pathway, and a molecular screen for Wnt-responsive genes, confirm a role for Wnt signaling during neural patterning in *Xenopus*.

SO MECHANISMS OF DEVELOPMENT. (1999 Sep) 87 (1-2) 21-32.
Journal code: *ANP*. 9101218 ISSN: 0925-4773

I 39. ANSWER 31 OF 44 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II Wnt signaling and transcriptional control of *Stam10* in *Xenopus embryonic*.

SO JOURNAL OF CELL BIOLOGY. (2000 Apr 17) 149 (2) 249-54
Journal code: *BNV*. 0375356 ISSN: 0021-9525

SO Proceedings of the National Academy of Sciences of the United States of America (May 12, 1998) Vol 95, No 10, pp 5626-5631.
ISSN 0027-8424

I 39 ANSWER 32 OF 44 MEDLINE
T1 Two members of the Tcf family implicated in Wnt beta-catenin signaling during embryogenesis in the mouse
SO MOLECULAR AND BIOCHEMICAL ABSTRACTS (1998 Mar) 18 (3) 1248-50
Journal code NGY 8109087 ISSN 0270-7306

I 39 ANSWER 33 OF 44 MEDLINE
T1 The CREB-binding protein (CBP) cooperates with the serum response factor for transactivation of the c-fos serum response element
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Dec 5) 272 (49) 3116-21
Journal code HHV 2985121R ISSN 0021-9258

I 39 ANSWER 34 OF 44 MEDLINE
T1 Gistatin and phorbol 12-myristate 13-acetate regulate the human histidine decarboxylase promoter through Raf-dependent activation of extracellular signal-regulated kinase-related signaling pathways in gastric cancer cells
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Oct 24) 272 (43) 27015-24
Journal code HHV 2985121R ISSN 0021-9258

I 39 ANSWER 35 OF 44 MEDLINE
T1 Growth hormone regulates ternary complex factors and serum response factor associated with the c-fos serum response element
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Oct 10) 272 (41) 25951-8
Journal code HHV 2985121R ISSN 0021-9258

I 39 ANSWER 36 OF 44 MEDLINE
T1 Identification of a replication-competent pathogenic human immunodeficiency virus type 1 with a duplication in the TCF-alpha region but lacking NF-kappaB binding sites
SO JOURNAL OF VIROLOGY (1997 Feb) 71 (2) 1651-6
Journal code KCV 0113724 ISSN 0022-538X

I 39 ANSWER 37 OF 44 MEDLINE
T1 Functional role of extracellular signal-regulated protein kinases in gastric acid secretion
SO AMERICAN JOURNAL OF PHYSIOLOGY (1997 Dec) 273 (6 Pt 1) G1263-72
Journal code M8 0370511 ISSN 0002-9513

I 39 ANSWER 38 OF 44 MEDLINE
T1 A role for the small GTPase Rac in poliovirus middle-T antigen-mediated activation of the serum response element and in cell transformation
SO ONCOGENE (1997 Mar 13) 14 (10) 1235-41
Journal code ONC 8711562 ISSN 0950-9232

I 39 ANSWER 39 OF 44 MEDLINE
T1 Molecular mechanisms for the growth factor action of gastrin
SO AMERICAN JOURNAL OF PHYSIOLOGY (1997 Oct) 273 (4 Pt 1) G891-8
Journal code M8 0370511 ISSN 0002-9513

I 39 ANSWER 40 OF 44 MEDLINE
T1 Molecular mechanisms for somatostatin inhibition of c-fos gene expression
SO AMERICAN JOURNAL OF PHYSIOLOGY (1997 Apr) 272 (4 Pt 1) G721-6
Journal code M8 0370511 ISSN 0002-9513

I 39 ANSWER 41 OF 44 MEDLINE
T1 Tissue-inducible Egr-1 transcription in renal inner medullary collecting duct (mMCD3) cells is mediated by extracellular signal-regulated kinase activation
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1996 Oct 1) 93 (20) 11242-7
Journal code PV3 7505876 ISSN 0027-8424

I 39 ANSWER 42 OF 44 MEDLINE
T1 Regulation of mitogen-activated protein kinases by a calcium calmodulin-dependent protein kinase cascade
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1996 Oct 1) 93 (20) 10803-8
Journal code PV3 7505876 ISSN 0027-8424

I 39 ANSWER 43 OF 44 MEDLINE
T1 Serum response element and flanking sequences mediate the synergistic transcriptional activation of c-fos by 12-O-tetradecanoylphorbol-13-acetate and cholera toxin in AKR-2B cells
SO CELL GROWTH AND DIFFERENTIATION (1995 Aug) 6 (8) 955-64
Journal code VYI 9100024 ISSN 1044-9523

I 39 ANSWER 44 OF 44 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
T1 Human immunodeficiency virus 1 tat stimulates transcription of the transforming growth factor alpha gene in an epidermal growth factor-dependent manner
SO Cell Growth & Differentiation (1994) Vol 5, No 1, pp 87-93
ISSN 1044-9523

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(FIELD HOME) ENTERED AT 09:29:23 ON 15 MAY 2002

FIELD HISTORY ENTERED AT 09:29:35 ON 15 MAY 2002

1.1 0 SBLK-1? CN
1.2 0 SETS-1LN? CN
1.3 0 STCE CN
1.4 0 SMLPK CN
1.5 1 SE4
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E "ELK-1" CN 25
E "ETS-1LN" CN 25
E "TCF" CN 25

FIELD MEDLINE CAPTUS, BIOSIS ENTERED AT 09:34:05 ON 15 MAY 2002

16 2738 S 142805-58-1 RN
17 28420 S MAP2(W)KIN.ASF
18 1273 S ELK-1
19 108 S ETS-1 (K5) TRANSCRIPTION
110 1109 S TCTGSTR.ANSCRIPTION

FILE 4
111 6883 S G.M4 OR G.M4
112 81176 S REPORTER
113 32103 S LUCIFERASE
114 26 S 1.8(S) 11
115 0 S 1.9(S) 11
116 11 S 1.10(S) 11
117 26 S 1.14 OR 1.15
118 11 DTP REN 1.17 (15 DUPLICATES REMOVED)

FILE 180 GSTRY1 ENTERED AT 09:51:52 ON 15 MAY 2002
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FILE 180 GSTRY1 ENTERED AT 09:53:44 ON 15 MAY 2002
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99 FILE DGENE
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266 FILE ESBIOLASE
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90 FILE GENBANK
4 FILE HEPAT
3 FILE HICST-EPLITS
203 FILE HIFESCI
428 FILE MEDIANE
2 FILE NTIS
95 FILE PASCAL
26 FILE PROANT
385 FILE SCISEARCH
173 FILE TONCENTER
79 FILE TSPATFILL
6 FILE WPDPS
6 FILE WPDNDEN
1 FILE BABS
6 FILE INVESTENT
2 FILE NIDB
FILE ELK-1

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NEWS 8 Mar 22 TECHTRAK no longer available

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L1 2 PATHDETECT

File s alk-
L2 1278 ELK-1

File s II and 2
L3 41.1 AND 1.2

dup ram B3
PROCESSING COMPLETED FOR L3
L4 2 DUTP REN L3 (2 DUTP CATES RENOVTD)

File d fibb ab 1-2

L4 ANSWER 1 OF 2 MEDLINE DUTPLJCATE 1
ACCESSION NUMBER 2001236605 MEDLINE

DOC# VERNET NUMBER 21176104 PubMed ID 11279280
TITLE: alpha-Synuclein forms a complex with transcription factor ELK-1.

AUTHOR Iwata A, Miura S, Kamazawa H, Sawada M, Nukina N
CORRESPONDING AUTHOR Laboratory for CAC Repeat Diseases, Molecular
Neuropathology Group, RIKEN Brain Science Institute,
Wako-shi, Saitama, Japan.

SOURCE JOURNAL OF NEUROCHEMISTRY, (2001 Apr) 77 (1) 239-52
Journal code JAV: 2985190R ISSN 0022-3042.

PUB COUNTRY: United States

LANGUAG: English

FILE SEQUENCE: Priority Journals

ENTRY MONTH: 200105

ENTRY DATE: Entered STN: 20010517
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AB: alpha-synuclein has been identified as a component of Lewy bodies in Parkinson's disease and diffuse Lewy body disease, and glial cytoplasmic inclusions (GICs) in multiple system atrophy (MSA). To explore the role of alpha-synuclein in the pathogenesis, we searched for molecules interacting with alpha-synuclein and discovered that GICs are stained by anti-Elk-1 antibody. To seek the role of Elk-1 in synucleinopathies, we co-infected alpha-synuclein and Elk-1 to cultured cells, and found small granular structure complexes where the two molecules colocalized. Moreover, alpha-synuclein and Elk-1 were co-immunoprecipitated from the cell lysates. For formation of the complex, the presence of both F1S and B-box domains of Elk-1 was required. Although there was no evidence of direct binding between alpha-synuclein and Elk-1, we discovered that alpha-synuclein and Elk-1 both bind to ERK2, a MAP kinase. The effect of alpha-synuclein on the MAP kinase pathway was assessed using the PathDetect system, which showed prominent attenuation of Elk-1 phosphorylation with alpha-synuclein, and especially, A53T mutant. Our results suggest that alpha-synuclein reacts with the MAP kinase pathway, which might cause dysfunction of neurons and oligodendrocytes and lead to neurodegeneration in Parkinson's disease and MSA.

14. ANSWER 2 OF 2 C API C'S COPYRIGHT 2002 ACS

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ELK-1 Activation of the 9E3 cC-MF chemokine by phorbol esters occurs via multiple signal transduction pathways that converge to MEK1 ERK2 and activate the Elk1 transcription factor.

AUTHOR(S): Li, Qijiang; Vamgankar, Sucheta M.; Green, Harry M.; Martins-Green, Manuela

CORPORATE SOURCE: Department of Biology, University of California, Riverside, CA 92521, USA

SOURCE: Journal of Biological Chemistry (1999), 274(22), 15454-15465

CODE NUMBER: JBC:HEA, ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB: Using primary fibroblasts in culture, the authors investigated the signal transduction mechanisms by which phorbol esters, a class of tumor promoters, activate the 9E3 gene and its chemokine product. The chicken chemotactic and angiogenic factor (cC-MF). This gene is highly stimulated by phorbol 12,13-dibutyrate (PDBu) via 3 pathways: (1) a small contribution via protein kinase C (the commonly recognized pathway for these tumor promoters), (2) a contribution involving tyrosine kinases, and (3) a larger contribution via pathways that can be interrupted by dexamethasone. All 3 of these pathways converge into the mitogen-activated protein kinases, MEK1 ERK2. Using a luciferase reporter system, the authors show that although both the MEK1 and PDKII kappa B (a NF-kappa B-like factor in chickens) response elements are capable of

activation in these normal cells, regions of the 9E3 promoter containing elements responsive to PDBu stimulation. In contrast, the authors show for the first time that activation by PDBu occurs through a segment of the promoter containing Elk1 response elements; deletion and mutation of these elements abrogates 9E3 chicken chemotactic and angiogenic factor expression. Electrophoretic mobility shift assays and functional studies using PathDetect systems show that stimulation of the cells by phorbol esters leads to activation of the Elk1 transcription factor, which binds to its element in the 9E3 promoter.

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1 4 ANSWER 1 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
 TT Letter to the editors.
 SO Placenta. (January, 2002) Vol. 23, No. 1, pp. 100-101, print.
 ISSN: 0143-4004.

1 4 ANSWER 2 OF 63 CAPLUS COPYRIGHT 2002 ACS
 TT Preparation of pyrazines as modulators of **vascular endothelial growth factor (VEGF)** receptor tyrosine kinase.
 SO PCT Int. Appl., 2002 pp.
 CODEN: PIXND2

1 4 ANSWER 3 OF 63 CAPLUS COPYRIGHT 2002 ACS
 TT Human stress genes identified using DNA microarrays
 SO U.S. Pat. Appl. Publ., 57 pp., Cont.-in-part of U.S. Ser. No. 441,920
 CODEN: TSXXCO

1 4 ANSWER 4 OF 63 MEDLINE IDENTIFICATE 1
 TT Cyclooxygenase-1 is up-regulated in cervical carcinomas.
 autoerine paracrine regulation of cyclooxygenase-2, prostaglandin e
 receptors, and angiogenic factors by cyclooxygenase-1.
 SO CANCER RESEARCH, (2002 Jan 15) 62 (2) 424-32.
 Journal code: 2984705R ISSN: 0008-5472.

1 4 ANSWER 5 OF 63 MEDLINE IDENTIFICATE 2
 TT Histone deacetylase inhibitor FK228 inhibits tumor angiogenesis.
 SO INTERNATIONAI JOURNAL OF CANCER, (2002 Jan 20) 97 (3) 290-6.
 Journal code: 0042124 ISSN: 0020-7136

1 4 ANSWER 6 OF 63 CAPLUS COPYRIGHT 2002 ACS
 TT Isoform-specific expression of hypoxia-inducible factor-1 alpha during the late stages of mouse spermiogenesis
 SO Molecular Endocrinology (2002) 16(2): 234-243
 CODEN: MOENEN ISSN: 0888-8809

1 4 ANSWER 7 OF 63 MEDLINE IDENTIFICATE 3
 TT Goniodomin A, an antifungal polyether macroide, exhibits antiangiogenic activities via inhibition of actin reorganization in endothelial cells.
 SO JOURNAL OF CHEMICAL PHYSIOLOGY, (2002 Jan) 190 (1) 109-116.
 Journal code: 0050222 ISSN: 0021-9541.

1 4 ANSWER 8 OF 63 MEDLINE IDENTIFICATE 4
 TT Synergistic cooperation between hypoxia and transforming growth factor-beta pathways on human **vascular endothelial growth factor** gene expression.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Oct 19) 276 (42) 38527-35
Journal code 2985121R ISSN: 0021-9258

I-4 ANSWER 9 OF 63 MEDLINE DT PLICATE 5

TI The constitutive phenomorphogenesis 9 signalosome directs **vascular endothelial growth factor** production in tumor cells

SO CANCER RESEARCH (2001 Dec 1) 61 (23) 8416-21
Journal code 2984705R ISSN: 0008-5472

I-4 ANSWER 10 OF 63 MEDLINE

TI Regulation of **vascular endothelial growth factor**

by the Wnt and K-ras pathways in colonic neoplasia

SO CANCER RESEARCH (2001 Aug 15) 61 (16) 6050-4
Journal code CNE: 2984705R ISSN: 0008-5472

I-4 ANSWER 11 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI A single autophosphorylation site on KDR/Erk-1 is essential for VEGF-A-dependent activation of PLC-gamma and DN A synthesis in vascular endothelial cells

SO EUROPEAN Molecular Biology Organization Journal (June 1, 2001)
Vol 20, No 11, pp 2768-2778 print
ISSN: 0261-4189

I-4 ANSWER 12 OF 63 CAPLIS COPYRIGHT 2002 ACS

TI Dissecting hypoxia-dependent and hypoxia-independent steps in the HIF-1 alpha activation cascade: implications for HIF-1 alpha gene therapy

SO EMB Journal (2001), 15(14), 2715-2717, 10.1096/emb.01-0546jfe
CODEN EMBJEC ISSN: 0892-6638

I-4 ANSWER 13 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI Identification of hypoxia-inducible factor 1 ancillary sequence and its function in **vascular endothelial growth factor** gene induction by hypoxia and nitric oxide

SO Journal of Biological Chemistry (January 19, 2001) Vol 276, No 3, pp 2292-2298 print
ISSN: 0021-9258

I-4 ANSWER 14 OF 63 MEDLINE DT PLICATE 6

TI HIF-1 expression in healing wounds: HIF-1 alpha induction in primary inflammatory cells by TNF-alpha

SO AMERICAN JOURNAL OF PHYSIOLOGY CELL PHYSIOLOGY (2001 Dec) 281 (6) C1971-7
Journal code 106901225 ISSN: 0363-6143

I-4 ANSWER 15 OF 63 CAPLIS COPYRIGHT 2002 ACS

TI HIF-1 expression in healing wounds: HIF-1 alpha induction in primary inflammatory cells by TNF-alpha

SO American Journal of Physiology (2001), 281(6, Pt. 1), C1971-C1977
CODEN AJPHAP ISSN: 0002-9513

I-4 ANSWER 16 OF 63 MEDLINE DT PLICATE 7

TI Inhibitory P-53 domain protein is a negative regulator of hypoxia-inducible

gene expression.

SO NUTRITION (2001 Nov 29) 414 (6863) 550-4
Journal code 0410462 ISSN: 0028-0836

I-4 ANSWER 17 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI The transcriptional corepressor NAB2 blocks Egr-1-mediated growth factor activation and angiogenesis

SO Biochemical and Biophysical Research Communications (May 4, 2001) Vol 283, No 2, pp 480-486 print
ISSN: 0006-291X

I-4 ANSWER 18 OF 63 MEDLINE DT PLICATE 8

TI Efficient expression of the **vascular endothelial growth factor** gene in vitro and in vivo, using an adenovirus-associated virus vector

SO JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY (2001 Feb) 33 (2) 295-305
Journal code J72: 0262322 ISSN: 0022-2828

I-4 ANSWER 19 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI Mamalian gene expression in hypoxic conditions

SO Zoology (Jena) (2001) Vol 104, No 3-4, pp 192-197 print
ISSN: 0944-2006

I-4 ANSWER 20 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI Alkyl-diphospholipids enhance radiation-induced cytotoxicity and inhibit angiogenesis in vitro

SO International Journal of Radiation Oncology Physics (2001) Vol 51, No 3 Supplement 1, pp 155 http://www.elsevier.com/locate/ijropr
http://www.elsevier.com/locate/ijropronline print

Meeting Info.: 43rd Annual Meeting of the American Society for Therapeutic Radiology and Oncology San Francisco, CA, USA November 04-08 2001
ISSN: 0360-3016

I-4 ANSWER 21 OF 63 MEDLINE

TI Hypoxia-stimulated expression of angiogenic growth factors in cervical cancer cells and cervical cancer-derived fibroblasts

SO Int J Gynecol Cancer (2001 Mar-Apr) 11 (2) 137-42
Journal code JZP: 9111626 ISSN: 1048-891X

I-4 ANSWER 22 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI Isolation of potential pathways for VEGF-mediated renal cell tumorigenesis: Disruption of the VEGF-hypoxia inducible factor alpha interaction

SO Journal of Virology (May, 2001) Vol 165, No 5 Supplement, pp 125-126 print

Meeting Info.: Annual Meeting of the American Urological Association, Inc Anaheim, California, USA June 02-07, 2001
ISSN: 0022-5347

I-4 ANSWER 23 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

TI HIF-1 and AP-1 cooperate to increase gene expression in hypoxia: Role of MAP kinases

SO JOURNAL OF CELL PHYSIOLOGY (July, 2001) Vol 52, No 1-2, pp 49-53 print
ISSN: 1521-6543

I-4 ANSWER 24 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 VEGF is regulated by the Wnt pathway in colon cancer

SO Gastroenterology, (April, 2001) Vol. 120, No. 5 Supplement 1, pp. A-4.
http: www.gastrojournal.org print
Meeting Info: 102nd Annual Meeting of the American Gastroenterological Association and Digestive Disease Week, Atlanta, Georgia, USA May 20-23, 2001
ISSN: 0016-5085

I-4 ANSWER 25 OF 63 MEDLINE
11 Stress-activated protein kinases (JNK and p38 HOG) are essential for vascular endothelial growth factor

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Aug 25) 275 (34) 26484-91
Journal code: JBY, 2985121R ISSN: 0021-9258

I-4 ANSWER 26 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Hypoxia-inducible expression of tumor-associated carbonic anhydrases
SO Cancer Research, (December 15, 2000) Vol. 60, No. 24, pp. 7075-7083.
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ISSN: 0008-5472

I-4 ANSWER 27 OF 63 MEDLINE
11 Oncogenes and tumor angiogenesis: the HPV-16 E6 oncoprotein activates the vascular endothelial growth factor (VEGF) gene promoter in a p53 independent manner
SO ONCOGENE, (2000 Sep 21) 19 (40) 4611-20
Journal code: ONC ISSN: 0950-9232

I-4 ANSWER 28 OF 63 MEDLINE
11 Identification of functional estrogen response elements in the gene coding for the potent angiogenic factor vascular endothelial growth factor
SO CANCER RESEARCH ARCHIVE, (2000 Jun 15) 60 (12) 3183-90.
Journal code: CNE, 2984705R ISSN: 0008-5472

I-4 ANSWER 29 OF 63 MEDLINE
11 Angiogenesis is induced in a rabbit model of hindlimb ischemia by naked DNA encoding an HIF-1alpha Vp16 hybrid transcription factor.
SO CIRCULATION, (2000 Oct 31) 102 (18) 2255-61.
Journal code: DAW, 0147763 ISSN: 1524-4539

I-4 ANSWER 30 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Semaphorin SEMA3F localization in malignant human lung and cell lines: A suggested role in cell adhesion and cell migration.
SO American Journal of Pathology, (March, 2000) Vol. 156, No. 3, pp. 935-950.
print
ISSN: 0002-9440

I-4 ANSWER 31 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Regulation of vascular endothelial growth factor expression in human keratinocytes by retinoids
SO Journal of Biological Chemistry, (January 7, 2000) Vol. 275, No. 1, pp

642-650, print.
ISSN: 0021-9258.

I-4 ANSWER 32 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 The role of COP9 signalosome in regulating VEGF production in tumor cells.
SO Targenbock's Archives of Surgery, (December, 2000) Vol. 385, No. 8, pp. 541, print.
Meeting Info: Joint Surgical Research Meeting, Tuebeck, Germany, November 09-11, 2000
ISSN: 1435-2443.

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11 Angiotensin-1 protects the adult vasculature against plasma leakage.
SO NATURE MEDICINE, (2000 Apr) 6 (4) 460-3.
Journal code: CGS, 9502015 ISSN: 1078-8956

I-4 ANSWER 34 OF 63 MEDLINE
11 Impaired angiogenic balance and suppression of tumorigenicity in HeLa cells chronically exposed to interferon-alpha.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2000 Oct 22) 277 (2) 410-6.
Journal code: 9Y8 ISSN: 0006-291X

I-4 ANSWER 35 OF 63 MEDLINE
11 A novel transcriptional factor with Ser/Thr kinase activity involved in the transforming growth factor (TGF)-beta signalling pathway.
SO BIOCHEMICAL JOURNAL, (2000 Sep 1) 350 Pt 2 395-404
Journal code: 2984726R ISSN: 0264-6021

I-4 ANSWER 36 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
11 Intracellular Ca2+ signalling by endothelin and angiotensin
SO Journal of the American Society of Nephrology, (September 2000) Vol. 11, No. Program and Abstract Issue, pp. 361A, http: www.jasn.org, print
Meeting Info: 33rd Annual Meeting of the American Society of Nephrology and the 2000 Renal Week, Toronto, Ontario, Canada October 19-16, 2000
ISSN: 1046-6673.

I-4 ANSWER 37 OF 63 CAPLIS COPYRIGHT 2002 ACS
11 Novel targeted ultrasound imaging contrast agents for diagnostic and therapeutic use
SO PCT Int. Appl., 223 pp.
CODEN: PLXND2

I-4 ANSWER 38 OF 63 MEDLINE
11 A quantitative analysis of the reduction in oxygen levels required to induce up-regulation of vascular endothelial growth factor (VEGF) mRNA in cervical cancer cell lines

SO PRACTICAL JOURNAL OF CANCER, (1999 Jul) 80 (10) 1518-24.
Journal code: AY4, 0370635 ISSN: 0007-0920.

I-4 ANSWER 39 OF 63 MEDLINE
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II Transcription-dependent nuclear-cytoplasmic trafficking is required for the function of the von Hippel-Lindau tumor suppressor protein.
 SO MOLECULAR AND CELLULAR BIOLOGY (1999 Feb) 19 (2) 1486-97
 Journal code: 8109087 ISSN: 0270-7306

I-4 ANSWER 40 OF 63 MEDLINE DTP/JC/VTE: 14
 II Okadaic acid stimulates the expression of **vascular endothelial growth factor** gene
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1999 Nov 19) 265 (2) 584-8
 Journal code: 9Y8: 0372516 ISSN: 0006-291X

I-4 ANSWER 41 OF 63 MEDLINE DTP/JC/VTE: 15
 II Wide spectrum of antitumor activity of a neutralizing monoclonal antibody to human **vascular endothelial growth factor**
 SO JAPANESE JOURNAL OF CANCER RESEARCH (1999 Jan) 90 (1) 93-100
 Journal code: HBA: 8509412 ISSN: 0910-5050

I-4 ANSWER 42 OF 63 MEDLINE DTP/JC/VTE: 16
 II Inhibition of hypoxia-inducible factor 1 activity by nitric oxide donors in hypoxia
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1998 Jun 23) 95 (13) 7368-73
 Journal code: PV3: 7505876 ISSN: 0027-8424

I-4 ANSWER 43 OF 63 MEDLINE
 II Induction of endothelial PAS domain protein-1 by hypoxia: characterization and comparison with hypoxia-inducible factor-1 alpha
 SO BIOLOGY (1998 Oct 1) 92 (7) 2260-8
 Journal code: ABG: 7603509 ISSN: 0006-4971

I-4 ANSWER 44 OF 63 COPYRIGHT 2002 ACS
 II Transcriptional responses mediated by hypoxia-inducible factor 1
 SO Kyoto University Symposium for Life Science and Medicine (1998) (Oxygen Homeostasis and Its Dynamics) 421-427
 CODE N: KUSNH9

I-4 ANSWER 45 OF 63 PROSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
 II Regulation of **vascular endothelial growth factor (VEGF)** expression is mediated by internal initiation of translation and alternative initiation of transcription.
 SO Oncogene (July 16, 1998) Vol. 17, No. 2, pp. 227-236.
 ISSN: 0950-9232

I-4 ANSWER 46 OF 63 MEDLINE
 II Differential transcriptional regulation of the two **vascular endothelial growth factor** receptor genes: HIF-1, but not Etk-1 KDR, is up-regulated by hypoxia
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Sep 19) 272 (38) 23659-67
 Journal code: HNY: 2985121R ISSN: 0021-9258

I-4 ANSWER 47 OF 63 MEDLINE DTP/JC/VTE: 17
 II Nuclear protein interactions with the human KDR tk-1 promoter in vivo: Regulation of Sp1 binding is associated with cell type-specific expression
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 Journal code: HNY: 2985121R ISSN: 0021-9258

I-4 ANSWER 48 OF 63 PROSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
 II VEGF-145, a secreted **vascular endothelial growth factor** isoform that binds to extracellular matrix.
 SO Journal of Biological Chemistry (1997) Vol. 272, No. 11, pp. 7151-7158.
 ISSN: 0021-9258

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 II Activation of hypoxia-inducible factor 1alpha: posttranscriptional regulation and conformational change by recruitment of the Arnt transcription factor.
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1997 May 27) 94 (11) 5667-72
 Journal code: PV3: 7505876 ISSN: 0027-8424

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 II Oxygen- and dioxin-regulated gene expression in mouse hepatoma cells.
 SO KIDNEY INTERNATIONAL (1997 Feb) 51 (2) 567-74
 Journal code: KVB: 0323470 ISSN: 0085-2538

I-4 ANSWER 51 OF 63 PROSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
 II Hypoxia-inducible factor-1-alpha is regulated at the post-mRNA level.
 SO Kidney International (1997) Vol. 51, No. 2, pp. 560-563.
 ISSN: 0085-2538

I-4 ANSWER 52 OF 63 MEDLINE DTP/JC/VTE: 19
 II Structural and functional analysis of hypoxia-inducible factor 1.
 SO KIDNEY INTERNATIONAL (1997 Feb) 51 (2) 553-5 Ref: 27
 Journal code: KVB: 0323470 ISSN: 0085-2538

I-4 ANSWER 53 OF 63 MEDLINE DTP/JC/VTE: 20
 II A MAP response element and an Ets motif are involved in the transcriptional regulation of HIF-1 tyrosine kinase (**vascular endothelial growth factor** receptor 1) gene.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1996 Nov 29) 271 (48) 30823-8
 Journal code: HNY: 2985121R ISSN: 0021-9258

I-4 ANSWER 54 OF 63 MEDLINE
 II Heterodimers of placenta growth factor **vascular endothelial growth factor**. Endothelial activity, tumor cell expression, and high affinity binding to Etk-1 KDR.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1996 Feb 9) 271 (6) 3154-62
 Journal code: HNY: 2985121R ISSN: 0021-9258

I-4 ANSWER 55 OF 63 MEDLINE DTP/JC/VTE: 21
 II Hypoxia-inducible factor 1 levels vary exponentially over a

physiologically relevant range of O₂ tension
SO AMERICAN JOURNAL OF PHYSIOLOGY (1996 Oct) 271 (4 Pt 1) C1172-80
Journal code: 3181-0370511 ISSN: 0002-9513

I 4 ANSWER 56 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
II Estrogen enhances **vascular endothelial growth factor (VEGF)** gene expression in human vascular smooth muscle cells
SO Circulation (1996) Vol. 94, No. 8 Suppl., pp. 1595.
Meeting Info: 69th Scientific Sessions of the American Heart Association
New Orleans, Louisiana, USA November 10-13, 1996
ISSN: 0009-7322

I 4 ANSWER 57 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
II Cloning and functional analysis of the promoter for KDR (K-1, a receptor for **vascular endothelial growth factor**
SO Journal of Biological Chemistry (1995) Vol. 270, No. 39, pp. 23111-23118
ISSN: 0021-9258

I 4 ANSWER 58 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
II Melanoma cell lines express VEGF receptor KDR and respond to exogenously added VEGF
SO Biochemical and Biophysical Research Communications (1995) Vol. 217, No. 3, pp. 721-727
ISSN: 0006-291X

I 4 ANSWER 59 OF 63 CAPLIS COPYRIGHT 2002 ACS
II Hypoxic stimulation of **vascular endothelial growth factor** expression in vitro and in vivo
SO Lab Invest (1994) 71(3): 374-9
CODEN: LAINAW, ISSN: 0023-6837

I 4 ANSWER 60 OF 63 MEDLINE
II **Vascular endothelial growth factor** and its receptors
SO PROGRESS IN GROWTH FACTOR RESEARCH (1994) 5 (1) 89-97, Ref: 61
Journal code: MOS 8912757 ISSN: 0955-2235

I 4 ANSWER 61 OF 63 MEDLINE
II Hypoxia regulatory elements of the human **vascular endothelial growth factor** gene
SO CELLULAR AND MOLECULAR BIOLOGY RESEARCH (1994) 40 (1) 35-50
Journal code: BSK 9310986 ISSN: 0968-8773

I 4 ANSWER 62 OF 63 MEDLINE
II Significance of **vascular endothelial growth factor** vascular permeability factor for solid tumor growth, and its inhibition by the antibody
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1993 Aug) 194(3): 1234-41
Journal code: YX 8 0372516 ISSN: 0006-291X

I 4 ANSWER 63 OF 63 CAPLIS COPYRIGHT 2002 ACS
II The binding of **vascular endothelial growth factor** to its receptors is dependent on cell surface-associated heparin-like molecules
SO J Biol Chem (1992) 267(9): 6093-8
CODEN: JBCHA3, ISSN: 0021-9258

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FACTOR(2A)
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1 7 4 DTP REM16 (4 DTP ICATES REMOVED)

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1 7 ANSWER 1 OF 4 MEDLINE

DTP ICATE 1

11 Wide spectrum of antitumor activity of a neutralizing monoclonal antibody
to human vascular endothelial growth factor

SO J VASC MED BIOL 1999;11(1):1-10
Journal code: HBA, 8509412 ISSN: 0910-5050

1 7 ANSWER 2 OF 4 MEDLINE

DTP ICATE 2

11 Nuclear protein interactions with the human KDR flk-1 promoter in vivo.
Regulation of Sp1 binding is associated with cell type-specific

expression
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Mar 28) 272 (13) 8410-6
Journal code: HHV, 2985121R ISSN: 0021-9258

1 7 ANSWER 3 OF 4 MEDLINE

11 Vascular endothelial growth factor and its receptors.
SO PROGRESS IN GROWTH FACTOR RESEARCH (1994) 5 (1) 89-97 Ref: 61
Journal code: AGS, 8912757 ISSN: 0955-2235

1 7 ANSWER 4 OF 4 CAPTUS COPYRIGHT 2002 AGS

11 The binding of vascular endothelial growth factor to its receptors is
dependent on cell surface-associated heparin-like molecules

SO J Biol Chem (1992) 267(9):6093-8
CODEN: JBCHEM ISSN: 0021-9258

duh ab 2-4

1 7 ANSWER 2 OF 4 MEDLINE

DTP ICATE 2

ACCESSION NUMBER: 97236794 MEDLINE
DOCUMENT NUMBER: 97236794 PubMedID: 9679666

1111 Nuclear protein interactions with the human KDR flk-1
promoter in vivo Regulation of Sp1 binding is associated
with cell type-specific expression

AUTHOR: Panerson C, Wu Y, Lee M, DeVaul J D, Kunge M S, Haber E
CORPORATE SOURCE: Division of Cardiology, University of Texas Medical Branch,
Galveston, Texas 77555-1064, U.S.A. camp@card.clogy.uth.tmc.edu
CONTRACT NUMBER: GNH6771-02 (SIGNIS)
HJ 57664-01 (NHBI)

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Mar 28) 272 (13)
8410-6
Journal code: HHV, 2985121R ISSN: 0021-9258

PTB COUNTRY: United States
Journal Article: (JOURNAL ARTICLE)

LANGUAGE: English
THE SEGMENT: Priority Journals

ENTRY MONTH: 199705
ENTRY DATE: Entered STN: 19970514

Last Updated on STN: 20000303
Entered Medline: 19970502

AB The endothelial cell type-specific tyrosine kinase KDR flk-1 is a
receptor for vascular endothelial

growth factor and a critical regulator of endothelial
cell growth and development. To study mechanisms of endothelial cell
differentiation and gene regulation, we have analyzed the topology of the
proximal promoter of human KDR flk-1. A protected sequence between base
pairs -110 and -25 was defined by in vitro DNase I footprinting analysis
in human umbilical vein endothelial cells (HUVECs). Purified Sp1 alone
produced similar protection, and electrophoretic mobility shift assays
demonstrated that Sp1 was indeed the major nuclear protein binding to this
region. Despite the cell type specificity of KDR flk-1 expression, no cell
type differences were observed in DNA-protein interactions in vitro. In
contrast, in vivo footprinting assays demonstrated marked differences in
core promoter interactions between cell types. Protection of Sp1 binding
sites was observed in HUVECs by in vivo DNase I footprinting, whereas in
human fibroblasts and HeLa cells a pattern consistent with
nucleosomal positioning was observed. In vivo dimethyl sulfate footprinting
confirmed that DNA-protein interactions occurred within Sp1 elements in
HUVECs but not in nonendothelial cells. It is possible that distant
element coordinate Sp1 binding and chromatin structure to regulate cell
type-specific expression of KDR flk-1.

1 7 ANSWER 3 OF 4 MEDLINE

ACCESSION NUMBER: 94257859 MEDLINE
DOCUMENT NUMBER: 94257859 PubMedID: 7515293

TITLE: Vascular endothelial growth factor and its receptors.
AUTHOR: Neufeld G, Tessier S, Gilar-Goren H, Cohen T, Levi B,
SOURCE: PROGRESS IN GROWTH FACTOR RESEARCH (1994) 5 (1) 89-97

Ref: 61
Journal code: AGS, 8912757 ISSN: 0955-2235

PTB COUNTRY: ENGLAND: United Kingdom
Journal Article: (JOURNAL ARTICLE)

General Review: (REVIEW)
(REVIEW: TUTORIAL)

LANGUAGE: English
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199407
ENTRY DATE: Entered STN: 19940714

Last updated on STN 20000303
Entered Medline 19940707

AB Vascular endothelial growth factor (VEGF) is a highly specific mitogen for vascular endothelial cells and an angiogenic factor that is structurally related to platelet derived growth factor (PDGF). It is also known as the vascular permeability factor (VPF) because it efficiently potentiates the permeabilization of blood vessels. Five types of VEGF mRNA encoding VEGF species which differ in their molecular mass and in their biological properties are transcribed from a single gene as a result of alternative splicing. VEGFs are produced and secreted by several normal cell types including smooth muscle, luteal and adrenal cortex cells. VEGFs are also produced by different tumorigenic cells, and appear to play a major role in tumour angiogenesis. Antibodies directed against VEGF can inhibit the growth of a variety of VEGF producing tumours. Of the various VEGF species, the best characterized is the 165 amino acid long form (VEGF₁₆₅). VEGF₁₆₅ is a heparin binding growth factor, and its interaction with **VEGF receptors** on the cell surface of vascular endothelial cells depends on the presence of heparin-like molecules. Several cell types which do not proliferate in response to VEGF such as bovine corneal endothelial cells, *HeLa* cells and human melanoma cells also express cell surface **VEGF receptors**, but the function of the **VEGF receptors** in these cells is unclear. Recently, the tyrosine-kinase receptors encoded by the *flt* and *KDR* *flk-1* genes were found to function as VEGF₁₆₅ receptors.

17. ANSWER 4 OF 4 C.A.P.I.'S COPYRIGHT 2002 ACS
ACCESSION NUMBER 1992 208557 C.A.P.I.'S
DOCUMENT NUMBER 116 208557

HEP The binding of vascular endothelial growth factor to its receptors is dependent on cell surface-associated heparin-like molecules

AUTHORS Gilay-Goren, Hela, Soker, Shay, Vlodaysky, Israel, Neufeld, Gera
CORPORATE SOURCE Dep. Biol. Technion, Israel Inst. Technol., Haifa, 32000, Israel

SOURCE J Biol Chem (1992) 267(9), 6093-8
CODING SEQUENCE ISSN: 0021-9258

DOCUMENT TYPE Journal
LANGUAGE English

AB The effect of heparin upon the interaction of vascular endothelial growth factor (VEGF) with its receptors was studied. Heparin, at concentrations ranging from 0.1-10 μ g/ml, strongly potentiated the binding of 125I-VEGF to its receptors on endothelial cells. Scatchard analysis of 125I-VEGF binding indicates that 1 μ g/ml heparin induces an 8-fold increase in the apparent number of high affinity binding sites for VEGF, but does not affect the dissociation constant of VEGF. Crosslinking experiments showed that heparin strongly potentiates the formation of the 170-, 195-, and 225-kDa 125I-VEGF-receptor complexes on endothelial cells. At high 125I-VEGF concentrations (4 ng/ml), heparin preferentially enhanced the formation of the 170- and 195-kDa complexes. Preincubation of the cells with heparin followed by extensive washes, produced a similar enhancement of subsequent 125I-VEGF binding. The binding of 125I-VEGF was completely inhibited following digestion of endothelial cells with heparinase and could be restored by the addition of exogenous heparin to the digested cells. The

enhancing effect of heparin facilitated the detection of VEGF receptors on cell types that were not known previously to express such receptors. Evidently, cell surface-associated, heparin-like molecules are required for the interaction of VEGF with its cell surface receptors.

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E2 1 FLKZ PROTEIN (SALMONELLA ENTERICA) TYPIII STRAIN C118 G1 NF
E3 0 -- FLK-1 CN
E4 1 FLK-1 RECEPTOR TYROSINE KINASE CN
E5 1 FLK-1 RECEPTOR TYROSINE KINASE (HOS) FRAGMENT CN
E6 1 FLK-1 KDR VEGF RECEPTOR TYROSINE KINASE CN
E7 1 FLK2 FLK3 RECEPTOR TYROSINE KINASE CN
E8 1 FLKON 1 CN
E9 1 FLK1 CN
E10 1 FLK1 5011 CN
E11 1 FLK-4205 CN

F12 1 F1N-4608 CN
 F13 1 F1N2-4400 CN
 F14 1 F1N2-4405 CN
 F15 1 F1N4-4405 CN
 F16 1 F1N6-4405 CN
 F17 1 F1N6-4405 CN
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F10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
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 CN Kinase (phosphorylating), gene flk-1 protein (9CI) (CAINDEX NAME)
 OTHER NAMES:
 CN **Flk-1 receptor tyrosine kinase**
 CN Flk-1 KDR VEGF receptor tyrosine kinase
 CN Gene flk-1 receptor tyrosine kinase
 CN Protein kinase Flk-1
 CN VEGF receptor tyrosine kinase 2
 ME Unspecified
 CT MAN
 SR CA
 IC STN Files CA CAPLUS, CINDEXCENTER, 1 SPATZ, TSPVETTL

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FILE MEDLINE CAPLUS, BIOSIS ENTERED AT 12:04 28 ON 20 MAY 2002
 L1 93336 SHEILA
 L2 25928 S VEGF OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)
 L3 701 S L1 AND L2
 L4 63 Duplicates (38 Duplicates REMOVED)
 L5 5094 S VEGF(2) RECEPTOR OR (VASCULAR ENDOTHELIAL GROWTH
 FACTOR(2) VRE
 L6 8 S L1(P) L5
 L7 4 Duplicates (4 Duplicates REMOVED)
 L8 1785 FLK-1

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 L10 1 F1LK-1" CN 25
 L11 1 S F4

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 L12 5 L1 AND L11

dup rem l12
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 L13 7 Duplicates (2 Duplicates REMOVED)

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L13 ANSWER 1 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC
 TL A single autophosphorylation site on KDR **Flk-1** is
 essential for VEGF-A-dependent activation of PI 3-gamma and DNA synthesis
 in vascular endothelial cells.
 SO J VMO (European Molecular Biology Organization) Journal (June 1, 2001)
 Vol 20, No. 11, pp. 2768-2778, print.
 ISSN: 0261-4189.

L13 ANSWER 2 OF 7 MEDLINE
 TL HIV-1-trans-activating (Tat) protein: both a target and a tool in
 therapeutic approaches.
 SO BIOCHEMICAL PHARMACOLOGY, (1999 Nov 15) 58 (10) 1521-8. Ref 89

113 ANSWER 3 OF 7 MEDLINE

11 Differential transcriptional regulation of the two vascular endothelial growth factor receptor genes, *Flk-1*, but not *Flk-1*

KIDR is up-regulated by hypoxia

SO JOT RN AL OF BIOLOGICAL CHEMISTRY (1997 Sep 19) 272 (38) 2459-67.
Journal code: HNY: 2985121R ISSN: 0021-9258

113 ANSWER 4 OF 7 MEDLINE

11 Nuclear protein interactions with the human KIDR **Flk-1** promoter in vivo. Regulation of Sp1 binding is associated with cell type-specific expression

SO JOT RN AL OF BIOLOGICAL CHEMISTRY (1997 Mar 28) 272 (13) 8410-6
Journal code: HNY: 2985121R ISSN: 0021-9258

113 ANSWER 5 OF 7 MEDLINE

11 Heterodimers of placenta growth factor vascular endothelial growth factor endothelial activity, tumor cell expression, and high affinity binding to **Flk-1** KIDR

SO JOT RN AL OF BIOLOGICAL CHEMISTRY (1996 Feb 9) 271 (6) 3154-62
Journal code: HNY: 2985121R ISSN: 0021-9258

113 ANSWER 6 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

11 Cloning and functional analysis of the promoter for KIDR **Flk-1**, a receptor for vascular endothelial growth factor

SO Journal of Biological Chemistry (1995) Vol 270, No 39, pp 23111-23118
ISSN: 0021-9258

113 ANSWER 7 OF 7 MEDLINE

11 Vascular endothelial growth factor and its receptors

SO PROGRESS IN GROWTH FACTOR RESEARCH (1994) 5 (1) 89-97 Ref 61
Journal code: MOS 8912757 ISSN: 0955-2235

Abstract 1.5

113 ANSWER 1 OF 7 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

ACCESSION NUMBER 2001 335431 BIOSIS

DOCT ME NT NT MEMBER PRI-V200100335431

111111 A single autophosphorylation site on KIDR **Flk-1** is essential for VEGF-A-dependent activation of PI3-kinase and DNA synthesis in vascular endothelial cells

AT THORAS S Takahashi, Tomoko, Yamaguchi, Sachiko, Chida, Kazutiro, Shibuya, Masabumi (1)
CORPORATE SOCIETY (1) Department of Genetics, Institute of Medical Science, University of Tokyo, Minato-ku, Tokyo, 108-8639.
shibuya@ims.u-tokyo.ac.jp Japan

SOI RCT FMBIO European Molecular Biology Organization) Journal, (June 1, 2001) Vol 20, No 11, pp 2768-2778, print.

ISSN: 0261-4189

DOCT ME NT NT TYPE Article

11 ANGEL AGF English

STANDARD 11 ANGEL AGF English

AB KIDR **Flk-1** tyrosine kinase, one of the two vascular

endothelial growth factor (VEGF) receptors, induces mitogenesis and differentiation of vascular endothelial cells. To understand the mechanism underlying the VEGF-A-induced growth signaling pathway, we constructed a series of human KIDR mutants and examined their biological properties. An in vitro kinase assay and subsequent tryptic peptide mapping revealed that Y1175 and Y1214 are the two major VEGF-A-dependent autophosphorylation sites. Using an antibody highly specific to the phospho-Y1175 region, we demonstrated that Y1175 is phosphorylated rapidly in vivo in primary endothelial cell lines by adenoviral vectors, only the

introduce into the endothelial cell lines by adenoviral vectors, only the Y1175 KIDR, Y1175 to phenylalanine mutant, lost the ability to tyrosine phosphorylate phosphatase C-gamma and, significantly, reduced MAP kinase phosphorylation and DNA synthesis in response to VEGF-A. Furthermore, primary endothelial cells microinjected with anti-phospho-Y1175 antibody clearly decreased DNA synthesis compared with control cells. These findings strongly suggest that autophosphorylation of Y1175 on KIDR is crucial for endothelial cell proliferation, and that this region is a new target for anti-angiogenic reagents.

113 ANSWER 5 OF 7 MEDLINE

ACCESSION NUMBER 96216393 MEDLINE

DOCT ME NT NT MEMBER 96216393 PubMedID 8621715

111111 Heterodimers of placenta growth factor vascular endothelial growth factor endothelial activity, tumor cell expression, and high affinity binding to **Flk-1** KIDR

AT THORAS S Cao Y, Chen H, Zhou L, Chiang M K, Mandy-Apte B, Weatherbee J A, Wang Y, Fang F, Flanagan J G, Tsang M L

CORPORATE SOCIETY Department of Surgery, Harvard Medical School, Boston, Massachusetts 02115, USA

CONTRACT NUMBER P01-CA-45548 (NCI)

SOI RCT FMBIO BIOLOGICAL CHEMISTRY (1996 Feb 9) 271 (6) 3154-62

Journal code: HNY: 2985121R ISSN: 0021-9258

PTB: COUNTRY: United States

1111111111 English

1111111111 Priority Journals

1111111111 199606

1111111111 Entered STN: 19960627

1111111111 Last updated on STN: 20000303

1111111111 Entered Medline: 19960619

AB Here we show that the Escherichia coli expressed monomers of placenta growth factor (PlGF)129 and vascular endothelial growth factor (VEGF)165 can be re-folded in vitro to form PlGF-VEGF heterodimers. The purified recombinant PlGF-VEGF heterodimers and VEGF homodimers have potent mitogenic and chemotactic effects on endothelial cells. However, PlGF-VEGF heterodimers display 20-50-fold less mitogenic activity than VEGF165 homodimers. In contrast, PlGF129 homodimers have little or no effect in these in vitro assays. We also demonstrate the presence of natural PlGF-VEGF heterodimers in the conditioned media of various human tumor cell lines. While PlGF-VEGF heterodimers bind with high affinity to a soluble **Flk-1** KIDR receptor, PlGF129 homodimers fail to bind to this receptor. Cross-linking of 125I-ligands to human umbilical

vein endothelial cells reveals that PI 3K/VEGF heterodimers and VEGF165 homodimers, but not PI 3K/VEGF129 homodimers, form complexes with membrane receptors. VEGF165 homodimers and PI 3K/VEGF heterodimers stimulate tyrosine phosphorylation of a 220-kDa protein, the expected size for the KDR receptor in human umbilical vein endothelial cells, whereas PI 3K/VEGF129 homodimers are unable to induce tyrosine phosphorylation of this protein. These data indicate that PI 3K/VEGF may modulate VEGF-induced angiogenesis by the formation of PI 3K/VEGF heterodimers in cells producing both factors.

s heterologous or recombinant

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I 16 37 DEPRENT I 15 (27 DEPLICATES REMOVED)

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I 16 ANSWER 1 OF 37 MEDLINE

II Antitumor activity of cytotoxic T lymphocytes engineered to target vascular endothelial growth factor receptors.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

AMERICA (2002 May 14) 99 (10) 7609-14

Journal code 7505876 ISSN 0027-8424

I 16 ANSWER 2 OF 37 MEDLINE

II Angiogenic and atherogenic responses to vascular endothelial growth factor administration in adult rat brain

SO NEUROSCIENCE (2002 11) 119 (4) 589-604

Journal code 7605074 ISSN 0306-4522

I 16 ANSWER 3 OF 37 MEDLINE

II Controlled expression of Human Endothelial Cell Populations by Cre-loxP-Based Reversible Immobilization

SO HUMAN GENETICS (2002 Jan) 13 (2) 321-34

Journal code 9068950 ISSN 1043-0342

I 16 ANSWER 4 OF 37 MEDLINE

II Caveolin-1 null mice are viable but show evidence of hyperproliferative and vascular abnormalities.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Oct 12) 276 (41) 38121-38

Journal code 2985121R ISSN 0021-9258

I 16 ANSWER 5 OF 37 MEDLINE

II Increased vascular endothelial growth factor 165 binding to kinase insert domain-containing receptor after infection of human endothelial cells by recombinant adenovirus encoding the VEGF(165) gene.

SO CIRCULATION (2001 Apr 10) 103 (14) 1887-92

Journal code 1047763 ISSN 1524-4539

I 16 ANSWER 6 OF 37 MEDLINE

II Extracellular matrix protein 1 (ECM1) has angiogenic properties and is expressed by breast tumor cells.

SO FASEB JOURNAL (2001 Apr) 15 (6) 988-94

Journal code FASJ 8804484 ISSN 0892-6638

I 16 ANSWER 7 OF 37 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Farnesyl transferase inhibition of bone marrow-derived endothelial progenitor cells.

SO Blood (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 823a

http://www.bloodjournal.org print Meeting Info: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001

ISSN: 0006-4971

I 16 ANSWER 8 OF 37 MEDLINE

II Vascular endothelial growth factor enhances glomerular capillary repair and accelerates resolution of experimentally induced glomerulonephritis

SO AMERICAN JOURNAL OF PATHOLOGY (2001 Aug) 159 (2) 599-608

Journal code JRS 0370502 ISSN 0002-9440

I 16 ANSWER 9 OF 37 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Neuronal effects of VEGF.

SO Society for Neuroscience Abstracts (2001) Vol. 27, No. 1, pp. 360 print Meeting Info: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001

ISSN 0950-5295

I 16 ANSWER 10 OF 37 MEDLINE

II Expression of vascular endothelial growth factor in a human benign osseous cell line (ISO-HAS).

SO ARCHIVES OF DERMATOLOGY (2001 Jun) 293 (6) 296-301

Journal code 8000462 ISSN 0340-3696

I 16 ANSWER 11 OF 37 MEDLINE

II Angiogenesis inhibitors in the treatment of lung cancer.

SO LUNG CANCER (2001 Dec) 34 Suppl 3 S81-9 Ref 62

Journal code 8800805 ISSN 0169-5002

I 16 ANSWER 12 OF 37 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Cloning, expression, purification and characterization of hemangioendothelin, a factor capable of stimulating bone marrow hematopoietic stem cells and endothelial cells.

SO Blood (November 16, 2001) Vol. 98, No. 11 Part 1, pp. 71a

http://www.bloodjournal.org print Meeting Info: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001

ISSN: 0006-4971

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Journal code: 9412590 ISSN: 1062-3329.

I16. ANSWER 14 OF 37 MEDLINE DT PLICATE 8

II Vascular endothelial growth factor and interleukin-6 in paracrine tumor-stromal cell interactions in multiple myeloma.

SO BIOLOGY (2000 Apr 15) 95 (8) 2630-6

Journal code: A861 7603509 ISSN: 0006-4971.

I16. ANSWER 15 OF 37 MEDLINE DT PLICATE 9

II Release and complex formation of soluble VEGFR-1 from endothelial cells and biological fluids.

SO J. MOLECULAR INVESTIGATION (2000 Apr) 80 (4) 443-54

Journal code: K/4 0376617 ISSN: 0023-6837

I16. ANSWER 16 OF 37 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

II Regulation of hematopoiesis and vasculogenesis by Indian hedgehog and BMP-2 in the mouse embryo

SO Blood (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 72a, print Meeting Info: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology
ISSN: 0006-4971

I16. ANSWER 17 OF 37 MEDLINE DT PLICATE 10

II Roles of growth factors in mediating mesenchymal influence on the cytodifferentiation of the Dunning prostatic adenocarcinoma.

SO JOURNAL OF BIOLOGY (2000 Jan-Feb) 21 (1) 21-32

Journal code: TTT 8409922 ISSN: 0289-5447

I16. ANSWER 18 OF 37 MEDLINE DT PLICATE 11

II HICP1P-A, a protein tyrosine phosphatase that regulates vascular endothelial growth factor receptor-mediated signal transduction and biological activity

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1999 Dec 31) 274 (53) 18183-8

Journal code: HNY 2985121R ISSN: 0021-9258.

I16. ANSWER 19 OF 37 MEDLINE DT PLICATE 12

II Vascular endothelial growth factor induces nephrogenesis and vasculogenesis.

SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY (1999 Oct) 10 (10) 2125-34

Journal code: AGT 9013836 ISSN: 1046-6673

I16. ANSWER 20 OF 37 MEDLINE DT PLICATE 13

II Inhibition of hepatic stellate cell contraction during activation in vitro by vascular endothelial growth factor in association with upregulation of ET1 tyrosine kinase receptor family, ET1-1.

SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1999 May 19) 258 (3) 674-8

Journal code: VY 8 0372516 ISSN: 0006-291X

I16. ANSWER 21 OF 37 CAPLIS COPYRIGHT 2002 ACS

II Tumor necrosis factor downregulates vascular endothelial growth factor

receptor E1a-1 in vivo

SO Surgical Forum (1999) 50, 311-313
CODEN: STFOAN ISSN: 0071-8041

I16. ANSWER 22 OF 37 MEDLINE DT PLICATE 14

II Vascular endothelial growth factor chimeric toxin is highly active against endothelial cells.

SO CANCER RESEARCH (1999 Jan 1) 59 (1) 183-8.

Journal code: CNE 2984705R ISSN: 0008-5472

I16. ANSWER 23 OF 37 CAPLIS COPYRIGHT 2002 ACS

II Regulatory sequences conferring expression of a heterologous sequence in endothelial cells for therapeutic applications in vascular disease

SO PCT Int. Appl. 107 pp.
CODEN: PLXND2

I16. ANSWER 24 OF 37 MEDLINE DT PLICATE 15

II Patterns of brain angiogenesis after vascular endothelial growth factor administration in vitro and in vivo.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1998 Jun 9) 95 (12) 7086-91.

Journal code: PVC 7505876 ISSN: 0027-8424

I16. ANSWER 25 OF 37 MEDLINE DT PLICATE 16

II Role of vascular endothelial growth factor on erythropoietin-related endothelial cell proliferation.

SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY (1998 Nov) 9 (11) 1998-2004.

Journal code: AGT 9013836 ISSN: 1046-6673.

I16. ANSWER 26 OF 37 MEDLINE DT PLICATE 17

II Inhibition of tumor growth by targeting tumor endothelium using a soluble vascular endothelial growth factor receptor

SO CELL GROWTH AND DIFFERENTIATION (1998 Jan) 9 (1) 49-58

Journal code: AYIL 9100024 ISSN: 1044-9523.

I16. ANSWER 27 OF 37 CAPLIS COPYRIGHT 2002 ACS

II Human protein tk-1bp eDN-A sequence: recombinant production, and binding by vascular endothelial cell surface receptor **tk-1**

SO PCT Int. Appl. 42 pp.
CODEN: PLXND2

I16. ANSWER 28 OF 37 MEDLINE DT PLICATE 18

II Extracellular cleavage of the vascular endothelial growth factor 189-amino acid form by urokinase is required for its mitogenic effect.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 May 16) 272 (20) 13390-6
Journal code: HNY 2985121R ISSN: 0021-9258.

I16. ANSWER 29 OF 37 MEDLINE

II VEGF145, a secreted vascular endothelial growth factor isoform that binds to extracellular matrix.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Mar 14) 272 (11) 7151-8

Journal code: HIV: 2985121R ISSN: 0021-9258

I16 ANSWER 30 OF 37 MEDLINE DT PLICATE 19

11 Up-regulation of Etk-1 vascular endothelial growth factor receptor 2 by its ligand in a cerebral slice culture system

SO CANCER RESE ARCH (1997 Sep 1) 57 (17) 3852-9

Journal code: CNE: 2984705R ISSN: 0008-5472

I16 ANSWER 31 OF 37 MEDLINE DT PLICATE 20

11 Activation of Etk-1 KDR mediates angiogenesis but not hypotension

SO CARDIOVASCUL AR RESE ARCH (1997 Nov) 36 (2) 276-81

Journal code: COR: 0077427 ISSN: 0008-6363

I16 ANSWER 32 OF 37 CAPLIS COPYRIGHT 2002 ACS

11 Receptor protein tyrosine kinase extracellular domain preparation with recombinant cells and assays for receptors and ligands

SO PCT Int Appl: 80 pp
CODEN: PINXID2

I16 ANSWER 33 OF 37 MEDLINE DT PLICATE 21

11 Heterodimers of placenta growth factor vascular endothelial growth factor 1 endothelial activity, tumor cell expression, and high affinity binding to Etk-1 KDR

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1996 Feb 9) 271 (6) 3154-62

Journal code: HIV: 2985121R ISSN: 0021-9258

I16 ANSWER 34 OF 37 MEDLINE DT PLICATE 22

11 Vascular endothelial growth factor-toxin conjugate specifically inhibits KDR Etk-1-positive endothelial cell proliferation in vitro and angiogenesis in vivo

SO CANCER RESE ARCH (1996 Mar 15) 56 (6) 1324-30

Journal code: CNE: 2984705R ISSN: 0008-5472

I16 ANSWER 35 OF 37 MEDLINE DT PLICATE 23

11 Myeloid progenitor cell regulatory effects of vascular endothelial cell growth factor

SO INTERNATIONAL JOURNAL OF HEMATOLOGY (1995 Dec) 62 (4) 203-15

Journal code: A7E: 9111627 ISSN: 0925-5710

I16 ANSWER 36 OF 37 CAPLIS COPYRIGHT 2002 ACS

11 Etk-1 as receptor for vascular endothelial growth factor and compounds modulating their interaction

SO PCT Int Appl: 98 pp
CODEN: PINXID2

I16 ANSWER 37 OF 37 MEDLINE DT PLICATE 24

11 Placenta growth factor: Potentiation of vascular endothelial growth factor bioactivity in vitro and in vivo, and high affinity binding to Etk-1 but not to Etk-1 KDR

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1994 Oct 14) 269 (41) 25646-54

Journal code: HIV: 2985121R ISSN: 0021-9258

d bbb ab 36, 33, 27

I16 ANSWER 36 OF 37 CAPLIS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994-549798 CAPLIS

DOCUMENT NUMBER: 121149798

11 Etk-1 as receptor for vascular endothelial growth factor and compounds modulating their interaction

INVENTOR(S): Ulrich, Axel, Rissau, Werner, Mflauer, Brigitte
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V., Germany

SOURCE: PCT Int. Appl., 98 pp.
CODEN: PINXID2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY AGENT CODE: 7

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 94/1499 A1 19940526 WO 1993-4-P3191 19931115
W. AT, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LV, NO, NZ, PL,

RO, RU, SK, UA, UZ
RWANDA, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,

FI, BL, CF, CG, CL, CM, GA, GN, MI, MR, NP, SN, TD, TG
CN 1694445 A 19941102 CN 1993-115145 19931113

CA 2149298 A 19940526 CA 1993-2149298 19931115
AT 9-55627 A1 19940608 AT 1994-55627 19931115

EP 669978 A1 19950906 EP 1994-900810 19931115
IE AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

JP 08505763 T2 19960625 JP 1993-511719 19931115
PRIORITY APPL N INFO: TS 1992-975750 A 19921113

TS 1993-38596 A 19930326
WO 1993-4-P3191 W 19931115

AB The present invention relates to the use of ligands for the Etk-1 receptor for the modulation of angiogenesis and vasculogenesis. The invention is based in part, on the demonstration that Etk-1 tyrosine kinase receptor expression is associated with endothelial cells and the identification of vascular endothelial growth factor (VEGF) as the high affinity ligand of Etk-1. These results indicate a major role for Etk-1 in the signaling system during vasculogenesis and angiogenesis. Engineering of host cells that express Etk-1 and the uses of expressed Etk-1 to evaluate and screen for drugs and analogs of VEGF involved in Etk-1 modulation by either agonist or antagonist activities is described. The invention also relates to the use of Etk-1 ligands, including VEGF agonists and antagonists, in the treatment of disorders, including cancer, by modulating vasculogenesis and angiogenesis.

I16 ANSWER 33 OF 37 MEDLINE DT PLICATE 21

ACCESSION NUMBER: 96216393 MEDLINE

DOCUMENT NUMBER: 96216393 PubMed ID: 8621715

11 Heterodimers of placenta growth factor vascular endothelial growth factor: Endothelial activity, tumor cell expression, and high affinity binding to Etk-1 KDR

AT THOR Cao Y, Chen H, Zhou L, Chiang M K, Maand, Apté B, Weatherbee J A, Wang Y, Fang F, Flanagan J G, Tsang M I

CORPORATE SOURCE: Department of Surgery, Harvard Medical School, Boston, Massachusetts 02115, USA
CONTACT NUMBER: 001-617-45548 (NCI)
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Feb 9), 271 (6) 3154-62

Journal code: HWY: 2985121R, ISSN: 0021-9258
PUB COUNTRY: United States
Journal, Article (JOURNAL ARTICLE)
LANGUAGE: English
JIF SEQUENCE: Priority Journals
ENTRY MONTH: 199606
ENTRY DATE: Entered STM: 19960627
Last Updated on STM: 20000303
Entered Medline: 19960619

AB: Here we show that the Escherichia coli expressed monomers of placenta growth factor (PlGF)129 and vascular endothelial growth factor (VEGF)165 can be re-folded in vitro to form PlGF VEGF heterodimers. The purified recombinant PlGF VEGF heterodimers and VEGF homodimers have potent mitogenic and chemotactic effects on endothelial cells. However, PlGF VEGF heterodimers display 20-50-fold less mitogenic activity than VEGF165 homodimers. In contrast, PlGF129 homodimers have little or no effect in these in vitro assays. We also demonstrate the presence of natural PlGF VEGF heterodimers in the conditioned media of various human tumor cell lines. While PlGF VEGF heterodimers bind with high affinity to a soluble Flk-1/KDR receptor, PlGF129 homodimers fail to bind to this receptor. Cross-linking of 125I-ligands to human umbilical vein endothelial cells reveals that PlGF VEGF heterodimers and VEGF165 homodimers, but not PlGF129 homodimers, form complexes with membrane receptors VEGFR165 homodimers and PlGF VEGF heterodimers stimulate tyrosine phosphorylation of a 220-kDa protein, the expected size for the KDR receptor in human umbilical vein endothelial cells, whereas PlGF129 homodimers are unable to induce tyrosine phosphorylation of this protein. These data indicate that PlGF may modulate VEGF-induced angiogenesis by the formation of PlGF VEGF heterodimers in cells producing both factors

FILE ANSWER 27 OF 37 CAPTIONS COPY RIGHT 2002 ACS
ACCESSION NUMBER: 1997440168 CAPTIONS
DOCUMENT NUMBER: 12761234
TITLE: Human protein flk-1bp cDNA sequence, recombinant production, and binding by vascular endothelial cell surface receptor flk-1
INVENTORS: Lyman, Stewart D.
PATENT ASSIGNEES: Immune Corporation, USA
SOURCE: PCT Int. Appl., 42 pp.
CODON PLEXID2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PUBL. NO. KIND DATE APPLICATION NO. DATE
WO 9717442 A1 19970515 WO 19961817584 19961105

WEINSTEIN, CA. II, JR. KR, MN, NO, NZ
RECEIVED: CH. DE. DE. ES, FL. FR, GB, GR, IE, IT, IT, MC, NL, PL, SE
V 971102 A1 19970529 AT 199711162 19961105
PROPERTY APPL. INFO: US 1995554374 19951108
WO 19961817584 19961105

AB: A protein designated flk-1bp binds the vascular endothelial cell surface receptor flk-1 (fetal liver kinase 1). The nucleotide sequence of isolated human cDNA encoding flk-1bp is provided, along with expression vectors and transformed host cells useful in producing flk-1bp polypeptides. Antibodies that are immunoreactive with flk-1bp are generated using the polypeptides disclosed herein. Flk-1bp competes with vascular endothelial growth factor for binding by flk-1 and flk-1bp mRNA is present in heart, liver, skeletal muscle, pancreas, and prostate gland.

4 hrs
(FILE HOMOP. ENTERED AT 12:04:20 ON 20 MAY 2002)

FILE MEDLINE CAPTIONS, BIOSIS ENTERED AT 12:04:28 ON 20 MAY 2002
11 90336 SHELA
12 22928 S VEGF OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)
13 701 S L1 AND L2
14 63 DTP RENAL 3 (38 DTP PLACATES RENOVATED)
15 5094 S VEGF(2) RECEPTOR OR (VASCULAR ENDOTHELIAL GROWTH FACTOR(2) RE
16 8 S L1(P) L5
17 4 DTP RENAL 6 (4 DTP PLACATES RENOVATED)
18 1785 S FLK-1

FILE RIGISTRY ENTERED AT 12:19:48 ON 20 MAY 2002
19 0 S FLK-1 CN
E FLK-1 CN 25
110 1 S F4

FILE MEDLINE, BIOSIS, CAPTIONS ENTERED AT 12:21:44 ON 20 MAY 2002
111 1785 S FLK-1
112 9 S L1 AND L11
113 2 DTP RENAL 12 (2 DTP PLACATES RENOVATED)
114 555573 S HETEROLOGOUS OR RECOMBINANT
115 64 S L1(S) L14
116 37 DTP RENAL 15 (27 DTP PLACATES RENOVATED)

log file
CONSTANTS DOLLARS ENTRY SESSION TOTAL
ESTIMATED COST 40.35 129.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CAST/SCRIBER PRICE -1.24 -1.86

SESSION WILL BE HELD FOR 60 MINUTES
SESSION INFORMATION: SESSION STARTED AT 12:34:26 ON 20 MAY 2002

Connecting via Winsock to STN

Welcome to STN International. Enter >X

LOGGING SUCCESS

PASSWORD

*****RECONNECTED TO STN INTERNATIONAL*****

SESSION REQUESTED IN FILE "MEDLINE.BIOSIS.CAPLUS" AT 12:52:10 ON 20 MAY 2002

FILE "MEDLINE" ENTERED AT 12:52:16 ON 20 MAY 2002

FILE "BIOSIS" ENTERED AT 12:52:16 ON 20 MAY 2002

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FILE "CAPLUS" ENTERED AT 12:52:16 ON 20 MAY 2002

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COST IN U.S. DOLLARS	ENTRY	SINCE FILE	TOTAL
	SESSION		

FILE "ESTIMATE" COST	40.35	129.62	
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DISCOUNT FACTORS (FOR QUALIFYING ACCOUNTS)	ENTRY	SESSION	SINCE FILE	TOTAL

CUSTOMER PRICE	-1.24	-1.86		
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dlus

FILE "HOME" ENTERED AT 12:04:20 ON 20 MAY 2002

FILE "MEDLINE.CAPLUS.BIOSIS" ENTERED AT 12:04:28 ON 20 MAY 2002

1 93336 SHELVA

12 22928 S VEGG OR (VASCULAR ENDOTHELIAL GROWTH FACTOR)

13 101 S11 AND 12

14 63 DTP RENA 1.3 (38 DTP ICAT'S REMOVED)

15 5094 S VEGG 2 A RECEPTOR OR (VASCULAR ENDOTHELIAL GROWTH

1 ACTOR 2 ARI

16 8 S11 (P) 5

17 4 DTP RENA 1.6 (4 DTP ICAT'S REMOVED)

18 1785 S11 K-1

FILE "RECHISTRY" ENTERED AT 12:19:48 ON 20 MAY 2002

19 0 S11 K-1 CN

FILE "K-1" CN 25

110 1 S11-4

FILE "MEDLINE.BIOSIS.CAPLUS" ENTERED AT 12:21:44 ON 20 MAY 2002

111 1785 S11 K-1

112 9 S11 AND 111

113 7 DTP RENA 1.12 (2 DTP ICAT'S REMOVED)

114 555573 S H TTR 010601'S OR RECOMBINANT

115 64 S11 (S) 1-4

116 37 DTP RENA 1.15 (27 DTP ICAT'S REMOVED)

s alk-1
117 1278 ELK-1

s111 ard117
118 4 EL11 AND 117

dup rero 118
PROCESSING COMPLETED FOR 118
119 2 DTP RENA 1.18 (2 DTP ICAT'S REMOVED)

110 1-2

119 ANSWER 1 OF 2 MEDLINE DTP ICAT 1
VT Vascular endothelial growth factor (VEGF) enhances the expression of
receptors and activates mitogen-activated protein (MAP) kinase of dop-
retinal capillary endothelial cells

119 ANSWER 2 OF 2 MEDLINE
VT ELK-1 and ELK-2 in developing kidney and microvascular endothelial
assembly

dlus ab 2

119 ANSWER 2 OF 2 MEDLINE
ACCESSION NUMBER: 97097112 MEDLINE
DOCUMENT NUMBER: 97097112 PubMed ID: 8941926

VT ELK-1 and ELK-2 in developing kidney and microvascular
endothelial assembly

AUTHOR: Daniel T O. Stein E; Cornett D P; St John P L; Robert Jr,

Abrahamson D R

CORPORATE SOURCE: Division of Nephrology, Vanderbilt University Medical

Center, Nashville, Tennessee, U.S.A.

CONTRACT NUMBER: DK34972 (NIDDK)

DK38517 (NIDDK)

DK47078 (NIDDK)

SOURCE: KIDNEY INTERNATIONAL, SUPPLEMENT (1996 Dec) 57 S73-81

Journal code: KYCQ 7508622, ISSN: 0098-6577

PTB, COUNTRY: United States

Journal Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SHEET: Priority Journals

ENTRY MONTH: 199702

ENTRY DATE: Entered STN: 19970306

Last updated on STN: 20000303

Entered Medline: 19970225

AB: Eph family receptor tyrosine kinases direct neuronal cell targeting,
bundling and intercellular aggregation activity. Yet their role in
mammalian kidney development has been unexplored to date. We recently
identified expression of ELK (Eph-like kinase) receptors in cultured human
renal microvascular endothelial cells (HRAEC), and showed that ELK
mediates their in vitro assembly into capillary-like structures in
response to the exogenous ligand, ELK-2. Here we identify expression of
the ELK ligand, ELK-2, in HRAEC and in primitive vascular structures of

developing murine kidney. E1-K and E1-RK-2 are expressed on endothelial precursor cells of primitive microvasculature in a pattern similar to that of the VEGF receptor. **Ek-1** E1-K E1-RK-2 and

Ek-1 antigens are also displayed on the branching

ureteric bud epithelium. E1-K and E1-RK-2 expression persists in mature collecting ducts, glomeruli and arterioles. To explore whether renal-derived endothelial cells may distinguish E1-RK-2 from the angiogenic E1-K ligand, E1-RK-1 (E1-K) and whether endothelial cells from different sources may distinguish among Eph receptor ligands, we compared HRMFC and human umbilical vein endothelial cell (HUVEC) responses in an in vitro capillary-like assembly assay. HRMFC endothelial cells assembled capillary-like structures in response to E1-RK-2, but not E1-RK-1, under conditions that promoted HUVEC to assemble in response to E1-RK-1, but not E1-RK-2. Therefore, responses mediated through specific Eph family receptors (E1-K and E1-K) are discriminated by endothelial cells from different vascular bed sources. E1-K and its ligand, E1-RK-2, are spatially and temporally coordinated in expression and may function in morphogenesis of the renal microvasculature.

ek1

E1-K1 IS NOT A RECOGNIZED/ED COMMAND AND

The previous command name entered was not recognized by the system
 1 or a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt ()

s ek1

120 434 E1-K1

d bbb ab 1

120 ANSWER 1 OF 434 MEDLINE

ACCESSION NUMBER: 2002274208 IN-PROCESS

DOI: 10.1006/jmb.2002.274208 PubMed ID: 12614653

TI: The retinoid-inducible gene 1 effect on apoptosis and

mitogen-activated kinase signal pathways.

AU: Huang Shuang-Ling; Shyu Rong-Yann; Yeh Ming-Yang; Jiang

Shun-Yuan

CDRPT: Graduate Institute of Life Sciences, National Defense

Medical Center, Taipei, Taiwan.

SO: JOURNAL OF THE NATIONAL MEDICAL ASSOCIATION (2002 Mar-Apr) 22(2):799-804

Journal code: 8102988 ISSN: 0250-7005.

PT: B. COUNTRY: Greece

LANG: ENG

FILE: SEGMENT: IN-PROCESS, NONINDEXED, Priority Journals

ENTRY DATE: Indexed STN: 20020517

Last updated on STN: 20020517

AB: BACKGROUND: The retinoid-inducible gene 1 (RIG1), belonging to the family of type II tumor suppressor genes, was isolated from human gastric cancer cells treated with all-trans retinoic acid. The activity of the RIG1 gene was investigated in this study. MATERIALS AND METHODS: HTA cervical and TSG19201 gastric cancer cells were transiently transfected with expression vectors that synthesized RIG1-myc or RIG1-EGFP fusion protein. Cell growth

was analyzed by measuring the incorporation of bromodeoxyuridine.

Apoptosis was evaluated by the formation of in situ DNA breakage. The activities of mitogen-activated kinase signal pathways were analyzed using signal pathway trans-reporting systems. RESULTS: Expression of the RIG1-myc fusion protein resulted in decreased cell growth. Both RIG1-EGFP and RIG1-myc fusion proteins induced cellular apoptosis that was characterized by the presence of apoptotic bodies and in situ DNA breakage. The transactivation activities of E1-K1, c-Jun and CHOP proteins were suppressed by 80, 50 and 88%, respectively, in HTA cells expressing the RIG1-myc fusion protein for two days. Similarly, the transactivation activities of the CHOP protein was suppressed in TSG19201 and HTA cells transiently expressing RIG1-myc and RIG1-EGFP, respectively. CONCLUSIONS: The RIG1 fusion proteins exhibited growth suppressive and apoptosis-inducing activity. The protein negatively-regulated signal pathways of extracellular signal-regulated kinase, c-Jun N-terminal kinase and p38 mitogen-activated kinase

s maps of map kinase or mitogen activated protein kinase

121 50978 MAPK OR MAP KINASE OR MITOGEN ACTIVATED PROTEIN KINASE

s H10121

122 93111(P)121

dap rem 122

PROCESSING COMPLETED FOR 122

124 45 DTP REM 122 (48 DTP) ICAT'S REMOVED

s 123 and ek

124 1123 AND EK

d ti

124 ANSWER 1 OF 1 MEDLINE

TI: Vascular endothelial growth factor (VEGF) enhances the expression of

receptors and activates mitogen-activated protein (MAP) kinase of dog

retinal capillary endothelial cells.

125 0123 AND 11

s 123 and 11

126 34123 NOT PY 2000

s 123 not py 2000

126 34123 NOT PY 2000

s 123 not py 2000

126 34123 NOT PY 2000

126 ANSWER 1 OF 34 MEDLINE

TI: Vascular endothelial growth factor (VEGF) enhances the expression of

receptors and activates mitogen-activated protein (MAP) kinase of dog

retinal capillary endothelial cells

SO: JOURNAL OF CELLULAR PHYSIOLOGY AND THERAPEUTICS (2000 Aug) 16(4)

Journal code: CBR, ISSN: 1080-7683.

- I 26. ANSWER 2 OF 34 MEDLINE
II De novo expression of vascular endothelial growth factor in human pancreatic cancer: evidence for an autocrine mitogenic loop.
SO GASTROENTEROLOGY. (2000 Nov) 119(5) 1358-72.
Journal code: EHG ISSN: 0016-2590
 - I 26. ANSWER 3 OF 34 MEDLINE
II VEGF-dependent signaling in retinal microvascular endothelial cells.
SO UK SHINAJOURNALS OF MEDICAL SCIENCE. (1999 Dec) 45(2) 77-91.
Journal code: E91 ISSN: 0016-2590
 - I 26. ANSWER 4 OF 34 MEDLINE
II HICPTPA, a protein tyrosine phosphatase that regulates vascular endothelial growth factor receptor-mediated signal transduction and biological activity.
SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1999 Dec 31) 274(53) 38183-8
Journal code: HIV 2985121R ISSN: 0021-9258
 - I 26. ANSWER 5 OF 34 MEDLINE
II Concomitant over-expression of vascular endothelial growth factor and its receptors in pancreatic cancer.
SO INTERNATIONAL JOURNAL OF CANCER. (2000 Jan 1) 85(1) 27-34.
Journal code: GGT 0042124 ISSN: 0020-7136
 - I 26. ANSWER 6 OF 34 MEDLINE
II Vascular endothelial growth factor signals endothelial cell production of nitric oxide and prostacyclin through the e-KDR activation of e-Stc.
SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1999 Aug 27) 274(35) 25130-5
Journal code: HIV 2985121R ISSN: 0021-9258
 - I 26. ANSWER 7 OF 34 MEDLINE
II Vascular endothelial growth factor has neurotrophic activity and stimulates axonal outgrowth, enhancing cell survival and Schwann cell proliferation in the peripheral nervous system.
SO JOURNAL OF NEUROSCIENCE. (1999 Jul 15) 19(14) 5731-40.
Journal code: JDE 8102140 ISSN: 1529-2401
 - I 26. ANSWER 8 OF 34 MEDLINE
II Vascular endothelial growth factor induces activation and subcellular translocation of focal adhesion kinase (p125FAK) in cultured rat cardiac myocytes.
SO CIRCULATION RESEARCH ARCTIC. (1999 May 28) 84(10) 1194-202.
Journal code: DAL 0047103 ISSN: 0009-7330
 - I 26. ANSWER 9 OF 34 MEDLINE
II VEGF activates protein kinase C-dependent, but Ras-independent Raf-MAPK-MAP kinase pathway for DNA synthesis in primary endothelial cells.
SO ONCOGENE. (1999 Apr 1) 18(13) 2221-30.
Journal code: 8711562 ISSN: 0950-9232
 - I 26. ANSWER 10 OF 34 MEDLINE
II 16k human proactin inhibits vascular endothelial growth factor-induced activation of Ras in capillary endothelial cells.
-
- SO MOLECULAR ENDOCRINOLOGY. (1999 May) 13(5) 692-704
Journal code: NGZ 8801431 ISSN: 0888-8809
 - I 26. ANSWER 11 OF 34 MEDLINE
II The role of phosphatidylinositol 3-kinase in vascular endothelial growth factor's signaling.
SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1999 Apr 9) 274(15) 10002-7
Journal code: HIV 2985121R ISSN: 0021-9258
 - I 26. ANSWER 12 OF 34 MEDLINE
II Homologous up-regulation of KDR Flk-1 receptor expression by vascular endothelial growth factor in vitro.
SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1998 Nov 6) 273(45) 29979-85.
Journal code: HIV 2985121R ISSN: 0021-9258
 - I 26. ANSWER 13 OF 34 MEDLINE
II Ficosapentaenoic acid attenuates vascular endothelial growth factor-induced proliferation via inhibiting Flk-1 receptor expression in bovine carotid artery endothelial cells.
SO JOURNAL OF CELLULAR PHYSIOLOGY. (1998 Aug) 176(2) 342-9
Journal code: HNB 0050222 ISSN: 0021-9541
 - I 26. ANSWER 14 OF 34 MEDLINE
II Human immunodeficiency virus tat modulates the Flk-1 KDR receptor, mitogen-activated protein kinases, and components of focal adhesion in Kaposi's sarcoma cells.
SO JOURNAL OF VIROLOGY. (1998 Jul) 72(7) 6131-7.
Journal code: KCV 0113724 ISSN: 0022-538X
 - I 26. ANSWER 15 OF 34 MEDLINE
II Vascular permeability factor vascular endothelial growth factor-mediated signaling in mouse mesentery vascular endothelium.
SO CANCER RESEARCH ARCTIC. (1998 Mar 15) 58(6) 1278-84
Journal code: CNF 2984705R ISSN: 0008-5472
 - I 26. ANSWER 16 OF 34 MEDLINE
II Platelet growth factor stimulates MAP kinase and mitogenically but not phospholipase C-gamma and migration of endothelial cells expressing Flt-1.
SO ONCOGENE. (1998 Jan 22) 16(3) 359-67.
Journal code: ONC 8711562 ISSN: 0950-9232
 - I 26. ANSWER 17 OF 34 MEDLINE
II The vascular endothelial growth factor receptor KDR activates multiple signal transduction pathways in porcine aortic endothelial cells.
SO JOURNAL OF BIOLOGICAL CHEMISTRY. (1997 Dec 19) 272(51) 32521-7
Journal code: HIV 2985121R ISSN: 0021-9258
 - I 26. ANSWER 18 OF 34 MEDLINE
II The 20 kDa mature form of KDR Flk-1 (VEGF receptor-2) activates the PI 3-gamma pathway and partially induces mitotic signals in NIH3T3 fibroblasts.
SO ONCOGENE. (1997 May 1) 14(17) 2079-89.
Journal code: ONC 8711562 ISSN: 0950-9232

I 26. ANSWER 19 OF 34 MEDLINE

II Increase of protein tyrosine phosphorylation in rat retina after ischemia-reperfusion injury

SO INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE (1996 Oct) 37 (11) 2146-56

Journal code: GWL 7703701 ISSN: 0146-0404

I 26. ANSWER 20 OF 34 MEDLINE

II Activation of mitogen-activated protein kinases by vascular endothelial growth factor and basic fibroblast growth factor in capillary endothelial cells is inhibited by the antiangiogenic factor T α -KDa N-terminal fragment of proctin

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

AMERICA (1995 Jul 3) 92 (14) 6374-8

Journal code: PCV3 7505876 ISSN: 0027-8424

I 26. ANSWER 21 OF 34 MEDLINE

II A unique signal transduction from EGF tyrosine kinase: a receptor for vascular endothelial growth factor VEGF

SO ONCOGENE (1995 Jan 5) 10 (1) 135-47

Journal code: ONC 8711562 ISSN: 0950-9232

I 26. ANSWER 22 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II The role of vascular endothelial growth factor (VEGF) in the pathophysiology of multiple myeloma (MM)

SO Blood (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 836a print

Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology

ISSN: 0006-4971

I 26. ANSWER 23 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II VEGFR-1 (Flt-1) and VEGFR-2 (KDR) stimulate the proliferation of AML cells via the PI3-kinase and Akt protein kinase-B (PKB) signal pathway.

SO Blood (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 301a print

Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology

ISSN: 0006-4971

I 26. ANSWER 24 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II VEGF binding domains on fibronectin potentiate endothelial cell migration and differentiation by promoting the physical association of

VEGFR-2 (Flt-1 KDR) with the integrin α 5 β 1

SO Blood (November 16, 2000) Vol. 96, No. 11 Part 1, pp. 36a print

Meeting Info.: 42nd Annual Meeting of the American Society of Hematology San Francisco, California, USA December 01-05, 2000 American Society of Hematology

ISSN: 0006-4971

I 26. ANSWER 25 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II VEGF rescues hippocampal neurons from glutamate-induced toxicity through

Akt and ERK activation.

SO Neuroscience Research Supplement (2000) No. 24, pp. S51 print

Meeting Info.: 23rd Annual Meeting of the Japan Neuroscience Society and the 10th Annual Meeting of the Japanese Neural Network Society Yokohama, Japan September 04-06, 2000

ISSN: 0921-8696

I 26. ANSWER 26 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II VEGF-induced endothelial cell PAF synthesis, migration and proliferation: Role of the PI3K pathway

SO Circulation (October 31, 2000) Vol. 102, No. 18 Supplement, pp. II 65 print

Meeting Info.: Abstracts from Scientific Sessions 2000 New Orleans, Louisiana, USA November 12-15, 2000

ISSN: 0009-7332

I 26. ANSWER 27 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II The autophosphorylation of 1175-tyrosine residue on KDR Flt-1 (VEGF receptor-2) is essential for the activation of PI3- γ and MAP kinase pathway for DNA synthesis in vascular endothelial cells.

SO Journal of Submicroscopic Cytology and Pathology (July 2000) Vol. 32, No. 3, pp. 437 print

Meeting Info.: Xth International Vascular Biology Meeting Geneva, Switzerland September 05-09, 2000

ISSN: 1122-9497

I 26. ANSWER 28 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II VEGF-induced PAF synthesis by endothelial cells: Role of the PI3 kinase pathway

SO Canadian Journal of Cardiology (September, 2000) Vol. 16, No. Supplement F, pp. 143E print

Meeting Info.: 53rd Annual Meeting of the Canadian Cardiovascular Society Vancouver, British Columbia, Canada (October 20-November 01, 2000 Canadian Cardiovascular Society

ISSN: 0828-282X

I 26. ANSWER 29 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Vascular endothelial growth factor (VEGF): axonal outgrowth and the expression of the VEGF Receptor Flt-1 in cultured peripheral ganglia.

SO Society for Neuroscience Abstracts (1999) Vol. 25, No. 1-2, pp. 233

Meeting Info.: 29th Annual Meeting of the Society for Neuroscience, Part I Miami Beach, Florida, USA October 23-28, 1999 The Society for Neuroscience

ISSN: 0190-5295

I 26. ANSWER 30 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II A new potential VEGF signaling pathway via phosphoinositide (PI)3-kinase

SO Circulation (Oct. 27, 1998) Vol. 98, No. 17 Pt 1, pp. 1327

Meeting Info.: 71st Scientific Sessions of the American Heart Association Dallas, Texas, USA November 8-11, 1998 The American Heart Association

ISSN: 0009-7332

I 26. ANSWER 31 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

II Vascular endothelial growth factor (VEGF) activates mitogen-

activated protein kinase (MAPK)

pathways through phosphatidylinositol 3' (PI3) kinase in VEGFR-2

Flk-1 expressing hematopoietic cells

SO Blood (Nov 15, 1998) Vol 92, No 10 SUPPL 1 P AGE 1-2, pp 208A

Meeting Info: 40th Annual Meeting of the American Society of Hematology
Miami Beach, Florida, USA December 4-8, 1998 The American Society of
Hematology
ISSN: 0006-4971

I 26 ANSWER 32 OF 34 CAPTIONS COPYRIGHT 2002 ACS

11 Signal transduction of vascular endothelial growth factor (VEGF)
receptors, Flt-1 and KDR Flk-1

SO International Congress Series (1999), 1175(Tissue Engineering for
Therapeutic Use 3), 25-33

CODEN ENMIDM4, ISSN 0531-5131

I 26 ANSWER 33 OF 34 CAPTIONS COPYRIGHT 2002 ACS

11 8-(3-Oxo-4,5-ox-trihydroxy-3h-xanthen-9-yl)-1-naphthoic acid inhibits MAPK
phosphorylation in endothelial cells induced by VEGF and bFGF

SO International Journal of Molecular Medicine (1998), 2(2), 211-215
CODEN IJMMFG, ISSN 1107-3756

I 26 ANSWER 34 OF 34 CAPTIONS COPYRIGHT 2002 ACS

11 Tumor angiogenesis and Flt tyrosine kinase

SO Taniyoshi Kakusan Koso (1997), 42(10), 1470-1476

CODEN TANKAJ, ISSN 0039-9450

doi:10.1002/ab.32.31.21

I 26 ANSWER 32 OF 34 CAPTIONS COPYRIGHT 2002 ACS

ACCESSION NUMBER 1999 362303 CAPTIONS

DOCTMENT NUMBER 131 139567

TTTT

Signal transduction of vascular endothelial growth
factor (VEGF) receptors, Flt-1 and KDR Flk-1

AT THOR(S)

Shibuya M, Saitoh M, Masabumi T, Takahashi T, Omoto S, Sawano, Asako,
Hiratsuka, Sachie, Ogawa, Sachio, Yabana, Naoyuki,
Maru, Yoshio, Noda, Tetsuo, Yamaguchi, Sachio

CORPORATE SOURCE Department of Genetics, Institute of Medical Science,
University of Tokyo, Tokyo 108-8639, Japan

SO ITC International Congress Series (1999), 1175(Tissue

ENGINEERING

Engineering for Therapeutic Use 3), 25-33

CODEN ENMIDM4, ISSN 0531-5131

PT B1 ISHER

DOCTMENT TYPE Elsevier Science B.V.

LANGUAGE English

AB: A review with 25 refs. including some of the authors' studies. VEGF has
been shown to be crucial for the physiol. and most of the pathol.
angiogenesis. To examine the signal transduction from the two VEGF

receptors (VEGFR), Flt-1 and KDR Flk-1, the authors
established NIH3T3 cell lines overexpressing each of the VEGFRs. The

authors found that most of the mitotic signal was generated from KDR
Flk-1. However, unlike other representative tyrosine

kinase receptors, KDR Flk-1 utilizes the activation of

phospholipase-C/gamma-protein kinase C pathway for the stimulation of

MAP kinase and DNA synthesis, but not or only weakly the

activation of Ras or PI3kinase pathway. The idea that most of the pos.

signals towards endothelial cell proliferation and vascular permeability

are mediated by KDR Flk-1 was confirmed by a novel

type VEGF-like mol. (VEGF-E) which only binds and activates KDR

Flk-1. Flt-1 was found to carry a stronger binding

affinity to VEGF but a much weaker tyrosine kinase activity. Studies on

the flt-1 tyrosine kinase-deficient mice suggest that the high-affinity

ligand-binding domain of the Flt-1 is sufficient for the establishment of

physiol. angiogenesis, most likely regulating the levels of VEGF to an

appropriate range in embryogenesis.

REFERENCE CODE: 25 TITLES ARE 25 CITED REFERENCES AVAILABLE FOR
THIS

RECORD, ALL CITATIONS AVAILABLE IN THE REFERENCE

I 26 ANSWER 31 OF 34 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

ACCESSION NUMBER 1999-08673 BIOSIS

DOCTMENT NUMBER PREV199900098673

TTTT

Vascular endothelial growth factor (VEGF) activates
mitogen-activated protein

kinase (MAPK) pathways through

phosphatidylinositol 3' (PI3) kinase in VEGFR-2 Flk

1 expressing hematopoietic cells.

AT THOR(S) Wang, J.-F.; Grooman, J. E.

CORPORATE SOURCE Div. Experimental Med. Beth Israel Deaconess Med. Center,
Harvard Inst. Med., Boston, MA USA

SO ITC

Blood (Nov 15, 1998) Vol 92, No 10 SUPPL 1 P AGE 1-2,
pp 208A

Meeting Info: 40th Annual Meeting of the American Society

of Hematology Miami Beach, Florida, USA December 4-8, 1998

The American Society of Hematology

ISSN: 0006-4971

DOCTMENT TYPE Conference

LANGUAGE English

LANGUAGE

I 26 ANSWER 21 OF 34 MEDLINE

ACCESSION NUMBER 95124709 MEDLINE

DOCTMENT NUMBER 95124709 PubMed ID 7824266

TTTT

A unique signal transduction from Flt-1 tyrosine kinase, a
receptor for vascular endothelial growth factor VEGF.

AT THOR: Seetharam L, Golob N, Maru Y, Newfield G, Yamaguchi S,
Shibuya M

CORPORATE SOURCE Department of Genetics, University of Tokyo, Japan

SO ITC ONCOGENE (1995 Jan 5) 10 (1) 135-47

Journal code: ONCO 8711562 ISSN: 0950-9232

PT B1 COUNTRY: ENGLAND: United Kingdom

Journal Article (JOURN.ARTICLE)

LANGUAGE: English

THE SHGENT: Priority Journals

ENTRY MONTH: 199502

ENTRY ID VTE: Entered STN: 19950223

Last Updated on STN: 20000303

Entered Medline: 19950214

AB. Fli-1 (thus-like tyrosine kinase-1), a receptor-type tyrosine kinase of sharing similar features with two other fli-family encoded proteins KDR

Fli-1 and **Fli-4**, has been recently identified as a receptor for Vascular Endothelial Growth Factor (VEGF) known to induce the proliferation of vascular endothelial cells. In this study, we demonstrate that Fli-1 encodes for a 180 kDa glycoprotein, binds VEGF with high affinity, undergoes autophosphorylation but does not generate any mitogenic response in transfected NIH3T3 fibroblasts. Interestingly, the immediate early gene *c-myc* was not induced, whereas the *c-fos* was induced very weakly in Fli-1 expressing NIH3T3 cells. A comparative analysis of the Fli-1 signal cascade in the environment of endothelial cells with that of Fli-1 expressing NIH3T3 cells showed that VEGF induced phosphorylation of PI 3-kinase and Grb2 complex on tyrosine in both type of cells. However, a strong activation of **MAP kinases** was observed only in endothelial cells. Further, different from many other receptor tyrosine kinases, tyrosine phosphorylation of Shc protein, an important adaptor for signal transduction from many receptor kinases, was very weak in both Fli-1-NIH3T3 cells and endothelial cells. These results suggest that Fli-1 kinase utilizes a unique signal transduction system in endothelial cells, and the activation of the Fli-1 kinase is insufficient to trigger a mitogenic response in NIH3T3 fibroblasts.

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FILE MEDLINE BIOSIS CAPTUS ENTERED AT 12:21:44 ON 20 MAY 2002

111 1785 SEI K-1
112 9 S11 AND111
113 7 DTPRENT112 (2 DTPICATES REMOVED)
114 555573 SHETRIROLGOLIS OR RECOMBINANT
115 64 S111(S)14
116 47 DTPRENT115 (27 DTPICATES REMOVED)
117 1278 SEI K-1
118 4 S111 AND117
119 2 DTPRENT118 (2 DTPICATES REMOVED)
120 434 SEI K1
121 50978 S MAPK OR MAP KINASE OR MITOGEN ACTIVATED PROTEIN KINASE
122 93 S111(P)121
123 45 DTPRENT122 (48 DTPICATES REMOVED)
124 1 S123 AND11K
125 0 S123 AND111
126 34 S123 NOT PY 2000

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FILE MEDLINE BIOSIS CAPTUS ENTERED AT 13:09:41 ON 20 MAY 2002
127 1278 SEI K-1
128 5 S PHOSPHORYLATION
129 34940 S PHOSPHORYLATION
130 585 S127(S)129
131 472 S130 AND121

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132 2511 AND131

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PROCESSED COMPLETED FOR 132

133 13 DTPRENT132 (12 DTPICATES REMOVED)

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133 ANSWER 1 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 Downregulation of c-fos gene transcription in cells transformed by ELA and
cHa-ras oncogenes. A role of sustained activation of MAP ERK kinase
cascade and of inactive chromatin structure at c-fos promoter.
SO Oncogene (24 January, 2002) Vol 21, No. 5, pp 719-730
http://www.nature.com/one/index.html print
ISSN: 0950-9232

ditso133

133 ANSWER 1 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
11 Downregulation of c-fos gene transcription in cells transformed by ELA and
cHa-ras oncogenes. A role of sustained activation of MAP ERK kinase
cascade and of inactive chromatin structure at c-fos promoter.
SO Oncogene (24 January, 2002) Vol 21, No. 5, pp 719-730

http://www.nature.com/one/index.html print
ISSN: 0950-9232

133 ANSWER 2 OF 13 MEDLINE
11 Selective potentiation of paclitaxel (taxol)-induced cell death by
mitogen-activated protein kinase
kinase inhibition in human cancer cell lines.
SO MOLECULAR PHARMACOLOGY (2001 Aug) 60 (2) 290-301.
Journal code: NCIR: 0035623, ISSN: 0026-895X

133 ANSWER 3 OF 13 MEDLINE
11 Activation of the c-fos enhancer by the erk **MAP kinase**
pathway through two sequence elements: the c-fos AP-1 and p62 TCF sites.
SO ONCOGENE (2000 Mar 9) 19 (11) 1379-85.
Journal code: ONC: 8711562, ISSN: 0950-9232

133 ANSWER 4 OF 13 MEDLINE
11 Hypoxia induces c-fos transcription via a **mitogen-
activated protein kinase**-dependent pathway.
SO MOLECULAR BIOLOGICAL CHEMISTRY (1997 Sep 12) 272 (37) 23455-9
Journal code: HNY: 2985121R, ISSN: 0021-9258

133 ANSWER 5 OF 13 MEDLINE
11 Antioxidants as well as oxidants activate c-fos via Ras-dependent
activation of extracellular-signal-regulated kinase 2 and Elk-1
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED
STATES OF
AMERICA (1996 Oct 15) 93 (21) 11563-8
Journal code: PV3: 7505876, ISSN: 0027-8424

133 ANSWER 6 OF 13 MEDLINE
11 Selective response of ternary complex factor Sup1a to different
mitogen-activated protein kinase
subgroups.
SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED
STATES OF
AMERICA (1996 Oct 15) 93 (21) 11563-8
Journal code: PV3: 7505876, ISSN: 0027-8424

133 ANSWER 7 OF 13 MEDLINE
11 The p38 and ERK **MAP kinase** pathways cooperate to
activate Ternary Complex Factors and c-fos transcription in response to UV
light
SO JOURNAL OF CELLULAR PHYSIOLOGY (1996 Dec 2) 15 (23) 6552-63.
Journal code: JMB: 8208664, ISSN: 0261-4189

133 ANSWER 8 OF 13 CAPTUS COPYRIGHT 2002 ACS
11 The transcription factor TCF Elk-1. A nuclear sensor of changes in the
cellular redox status
SO Acc Esp Med Biol (1996). 387(Biological Reactive Intermediates V).
77-84
CODING: AEMBAP, ISSN: 0065-2598

133 ANSWER 9 OF 13 MEDLINE
11 Induction of c-fos expression through JNK-mediated TCF Elk-
1 phosphorylation

FILE MEDLINE BIOSIS CAPLIS ENTERED AT 13:09:41 ON 20 MAY 2002

1 27 1278 S11 K-1
1 28 5 S PHOSPHORYLATION
1 29 44940 S PHOSPHORYLATION
1 30 585 S127(S)129
1 31 472 S130 AND 121
1 32 25 S11 AND 131
1 33 13 D1 P R N1 32 (12 D1 P I C A T I O N S R E M O V E D)

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NEWS 6 Mar 08 Gene Names now available in BIOSIS
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NEWS 18 Apr 22 Federal Research in Progress (FEEDRIP) now available

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FILE 1 ASYRKB PDATED 18 MAY 2002 (20020518 T P) FILE GOVIRS 1958 TO DATE

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Enter HELP CONTENT for details.

Left, right, and simultaneous left and right truncation are available in the Basic Index. See HELP SEIELDS for details.

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532013 R.V.
1018959 R.V.S
1059499 R.V.
(R.V. OR R.V.S)
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11 3886 R.V.2
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s-vegf

4933 VEGF
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12 4938 VEGF
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13 411 AND I2
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13 ANSWER 1 OF 4 MEDLINE

11 The effect of vascular endothelial growth factor on a rat model of
traumatic arteriovenous fistula dysfunction.
SO JOURNAL OF VASCULAR MEDICINE AND BIOLOGY (2002 Feb) 16(2 Pt 1) 761-7.
Journal code: 0376-674 ISSN: 0022-5347

13 ANSWER 2 OF 4 MEDLINE

11 Vascular endothelial growth factor: tissue distribution and size of
multiple mRNA splice forms in SHR and WKY.
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY
SUPPLEMENT (1995)
1 S167-8
Journal code: 0097-7611 ISSN: 0143-9294

13 ANSWER 3 OF 4 MEDLINE

11 Vascular endothelial growth factor: tissue distribution and size of
multiple mRNA splice forms in SHR and WKY.
SO CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY (1995 Dec)
22 Suppl
1 S167-8
Journal code: 0097-7611 ISSN: 0143-9294

13 ANSWER 4 OF 4 MEDLINE

11 Biochemical characterization of two isoforms of FLT4, a VEGF
receptor-related tyrosine kinase.
SO ONCOGENE (1995 Mar 2) 10(5) 973-84.
Journal code: 0950-0688 ISSN: 0950-9232.

shave

2130 H.V.C.

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14 2843 H.V.C.
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s-Flk-1

648 FLK
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16 1214 AND I5
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16 ANSWER 1 OF 12 MEDLINE

11 Controlled Expansion of Human Endothelial Cell Populations by
Cre-loxP-Based Reversible Immortalization.
SO HUMAN GENE THERAPY (2002 Jan) 13(2) 321-34.
Journal code: 9008950 ISSN: 1043-0342.

16 ANSWER 2 OF 12 MEDLINE

11 Gene therapy-mediated expression by tumor cells of the angiogenesis
inhibitor Flk-1 results in inhibition of neuroblastoma
growth in vivo.
SO JOURNAL OF PEDIATRIC SURGERY (2001 Jan) 36(1) 30-6
Journal code: 0022-6631 ISSN: 0022-3468

16 ANSWER 3 OF 12 MEDLINE

11 The angiogenesis inhibitor ST-5416 has long-lasting effects on vascular
endothelial growth factor receptor phosphorylation and function.
SO CLINICAL CANCER RESEARCH (2000 Dec) 6(12) 4348-58
Journal code: 0732-183X ISSN: 1078-0432

16 ANSWER 4 OF 12 MEDLINE

11 Characterization of (123I)-vascular endothelial growth factor-binding
sites expressed on human tumor cells: possible implication for tumor
scintigraphy.
SO INTERNATIONAL JOURNAL OF CANCER (2001 Mar 15) 91(6) 789-96.
Journal code: 0022-1224 ISSN: 0020-7136.

16 ANSWER 5 OF 12 MEDLINE

11 Differential behavior of VEGF receptor expression and response to TNF- α in
two immortalized human endothelial cell lines.
SO INTERNATIONAL JOURNAL OF ONCOLOGY (2000 Sep) 17(3) 525-33.
Journal code: 0378-5973 ISSN: 1019-6439.

16 ANSWER 6 OF 12 MEDLINE

11 Lipocortin V may function as a signaling protein for vascular endothelial
growth factor receptor-2 Flk-1.
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1999 Mar 19)

258 (3)

713-21

Journal code: 9Y8, 0372516, ISSN: 0006-291X

16. ANSWER 7 OF 12 MEDLINE

11 Multiple differentiation pathways of rat mammary stromal cells in vitro: acquisition of a fibroblast, adipocyte or endothelial phenotype is dependent on hormonal and extracellular matrix stimulation

SO DIFFERENTIATION, (1999 Jan;64(2) 91-101

Journal code: 199, 040165, ISSN: 0301-4681

16. ANSWER 8 OF 12 MEDLINE

11 The role of phosphatidylinositol 3-kinase in vascular endothelial growth factor signaling

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Apr 9) 274(15) 17012-7

Journal code: HY, 2985121R, ISSN: 0021-9258

16. ANSWER 9 OF 12 MEDLINE

11 Vascular endothelial growth factor induces VE-cadherin tyrosine phosphorylation in endothelial cells

SO JOURNAL OF CELL SCIENCE, (1998 Jul) 111 (Pt 13) 1853-65

Journal code: HN, 0052457, ISSN: 0021-9533

16. ANSWER 10 OF 12 MEDLINE

11 Inhibition of vascular endothelial growth factor (VEGF)-induced endothelial cell proliferation by a peptide corresponding to the exon 7-encoded domain of VEGF165

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Dec 12) 272(50) 31582-8

Journal code: HY, 2985121R, ISSN: 0021-9258

16. ANSWER 11 OF 12 MEDLINE

11 Nuclear protein interactions with the human KDR **tk-1** promoter in vivo: Regulation of Sp1 binding is associated with cell type-specific expression

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Mar 28) 272(13) 8410-6

Journal code: HY, 2985121R, ISSN: 0021-9258

16. ANSWER 12 OF 12 MEDLINE

11 ELK and LERK-2 in developing kidney and microvascular endothelial assembly

SO KIDNEY INTERNATIONAL, SUPPLEMENT, (1996 Dec) 57 S73-81

Journal code: KYC, 7508622, ISSN: 0098-6577

16. ANSWER 12 OF 12 MEDLINE

11 ELK and LERK-2 in developing kidney and microvascular endothelial assembly

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16. ANSWER 12 OF 12 MEDLINE

11 ELK and LERK-2 in developing kidney and microvascular endothelial assembly

SO KIDNEY INTERNATIONAL, SUPPLEMENT, (1996 Dec) 57 S73-81

Journal code: KYC, 7508622, ISSN: 0098-6577

11 ELK and LERK-2 in developing kidney and microvascular endothelial assembly

SO KIDNEY INTERNATIONAL, SUPPLEMENT, (1996 Dec) 57 S73-81

Journal code: KYC, 7508622, ISSN: 0098-6577

Center, Nashville, Tennessee, U.S.A.

CONTRACT NUMBER: DK34972 (NIHDK)

1638517 (NIHDK)

16347078 (NIHDK)

SO KIDNEY INTERNATIONAL, SUPPLEMENT, (1996 Dec) 57 S73-81

Journal code: KYC, 7508622, ISSN: 0098-6577

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SOURCE BIOETHNIC AND BIOPHYSICAL RESEARCH COMMUNICATIONS
1999

May 19 258 (3) 713-21

Journal code: 9Y8, 0372516 ISSN: 0006-291X

PIIB COUNTRY United States

Journal Article (JOURN.ARTICLE)

LANGUAGE English

FILE SEQUENCE Priority Journals

ENTRY MONTH 199906

ENTRY DATE Entered STN 19990712

Last Updated on STN 20000303

Entered Medline 19990624

AB Binding of vascular endothelial growth factor (VEGF) to its receptor,
VEGFR-2 (Flk-1 KDR), induces dimerization and

activation of the tyrosine kinase domain of the receptor, resulting in
autophosphorylation of cytoplasmic tyrosine residues used as docking sites
for signaling proteins that relay the signals for cell proliferation,

migration, and permeability enhancement. We explored the VEGF receptor
signaling pathway by performing a two-hybrid screen of a rat lung cDNA
library in yeast using the intracellular domain of rat VEGFR-2 as bait.

Two clones encoding lipocortin V were isolated. Subsequent studies with
the yeast two-hybrid assay showed that the complete intracellular domain
of VEGFR-2 was required for the interaction. Co-immunoprecipitation of

translated proteins confirmed the interaction between the VEGF receptor
and lipocortin V. VEGF induced a rapid tyrosine phosphorylation of
lipocortin V in human umbilical vein endothelial cells (HUVEC).

Pretreatment of HUVEC with antisense oligodeoxynucleotide
(ODN) for lipocortin V significantly inhibited VEGF-induced cell
proliferation, which was accompanied by a decrease in protein synthesis

and tyrosine phosphorylation of lipocortin V. Our results indicate that
lipocortin V may function as a signaling protein for VEGFR-2 by directly
interacting with the intracellular domain of the receptor and appears to

be involved in regulation of vascular endothelial cell proliferation
mediated by VEGFR-2.

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liver-specific expression of serum amyloid A1 gene.

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 May 25) 276 (21) 17770-8.
Journal code: HIV, 2985121R, ISSN: 0021-9258

I 9 ANSWER 6 OF 40 MEDLINE

II Cutting edge: activation of HIV-1 transcription by the MHC class II transactivator

SO JOURNAL OF IMMUNOLOGICAL, (2000 Apr 15) 164 (8) 3941-5.
Journal code: IFB, 2985117R, ISSN: 0022-1767

I 9 ANSWER 7 OF 40 MEDLINE

II Methoxyoxal induces apoptosis in Jurkat leukemia T cells by activating c-Jun N-terminal kinase

SO JOURNAL OF CELLULAR BIOCHEMISTRY, (2000 Mar) 77 (2) 333-44.
Journal code: HNE, 8205768, ISSN: 0730-2312

I 9 ANSWER 8 OF 40 MEDLINE

II Selective inhibition of monoamine neurotransmitter transporters by synthetic local anesthetics

SO NATION-SCHENKELBERG ARCHIVES OF PHARMACOLOGICAL, (2001 Feb) 361 (2) 214-20.
Journal code: NTO, 0326264, ISSN: 0028-1298

I 9 ANSWER 9 OF 40 MEDLINE

II Resistance to mitomycin C requires direct interaction between the Fancconi anemia proteins FANCA and FANCG in the nucleus through an arginine-rich domain

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1999 Nov 26) 274 (48) 4212-8.
Journal code: HIV, 2985121R, ISSN: 0021-9258

I 9 ANSWER 10 OF 40 MEDLINE

II Functional diversity of LAMP2alpha and LAMP2beta in postmitotic chromosome association is caused by an alpha-specific nuclear targeting domain

SO JOURNAL OF CELL BIOLOGY, (1999 Nov 15) 18 (22) 6370-84.
Journal code: FMB, 8208664, ISSN: 0261-4189

I 9 ANSWER 11 OF 40 MEDLINE

II Evaluation of novel human immunodeficiency virus type 1 Gag DNA vaccines for protein expression in mammalian cells and induction of immune responses

SO JOURNAL OF VIROLOGY, (1999 Nov) 73 (11) 9145-52.
Journal code: KCV, 0113724, ISSN: 0022-538X

I 9 ANSWER 12 OF 40 MEDLINE

II Cytoplasmic forms of human T-cell leukemia virus type 1 Tax induce NF-kappaB activation

SO JOURNAL OF VIROLOGY, (1998 Aug) 72 (8) 6777-84.
Journal code: KCV, 0113724, ISSN: 0022-538X

I 9 ANSWER 13 OF 40 MEDLINE

II Stable transfection of mammalian cells by syringe-mediated mechanical loading of DNA

SO ANNUAL BOOK OF BIOCHEMISTRY, (1998 May 1) 258 (2) 216-22.
Journal code: ANK, 0370535, ISSN: 0003-2697

I 9 ANSWER 14 OF 40 MEDLINE

II Hepatitis C virus core protein binds to the cytoplasmic domain of tumor necrosis factor (TNF) receptor 1 and enhances TNF-induced apoptosis

SO JOURNAL OF VIROLOGY, (1998 May) 72 (5) 3691-7.
Journal code: KCV, 0113724, ISSN: 0022-538X

I 9 ANSWER 15 OF 40 MEDLINE

II Expression of Bcl-2 in human epithelial tumor (Hela) cells enhances clonogenic survival following exposure to 5-fluoro-2'-deoxyuridine or staurosporine, but not following exposure to etoposide or doxorubicin

SO CANCER CHEMOTHERAPY AND PHARMACOLOGICAL, (1998) 41 (6) 457-63.
Journal code: C9S, 7806519, ISSN: 0344-5794

I 9 ANSWER 16 OF 40 MEDLINE

II Visualization of agonist-induced sequestration and down-regulation of a green fluorescent protein-tagged beta2-adrenergic receptor

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Jan 2) 273 (1) 322-8.
Journal code: HIV, 2985121R, ISSN: 0021-9258

I 9 ANSWER 17 OF 40 MEDLINE

II Serine protease inhibition and mitochondrial dysfunction associated with cisplatin resistance in human tumor cell lines: targets for therapy

SO JOURNAL OF PHARMACOLOGICAL, (1997 Jun 1) 53 (11) 1673-82.
Journal code: 974, 0101032, ISSN: 0006-2952

I 9 ANSWER 18 OF 40 MEDLINE

II Beta interferon and oncostatin M activate Raf-1 and mitogen-activated protein kinase through a JAK1-dependent pathway

SO MOLECULAR AND CELLULAR BIOLOGY, (1997 Jul) 17 (7) 3833-40.
Journal code: NGY, 8109087, ISSN: 0270-7306

I 9 ANSWER 19 OF 40 MEDLINE

II Porcine alpha-3-galactosyltransferase: tissue-specific and regulated expression of splicing isoforms

SO BIOCHEMICAL BIOPHYSICAL ACTA, (1997 Mar 27) 1356 (1) 1-11.
Journal code: AOW, 0217513, ISSN: 0006-3002

I 9 ANSWER 20 OF 40 MEDLINE

II Compartmentation of and interference with Sindbis virus replication by full-length and deleted forms of the nonstructural protein nsP1

expressed in stable transfectants of HeLa cells.
SO VIROLOGY, (1997 Jan 20) 227 (2) 361-9.
Journal code: XFA, 0110674, ISSN: 0042-6822

I 9 ANSWER 21 OF 40 MEDLINE

II Interaction of an adenovirus 14.7-kilodalton protein inhibitor of tumor necrosis factor alpha cytolysis with a new member of the GTPase superfamily of signal transducers

SO JOURNAL OF VIROLOGY, (1997 Feb) 71 (2) 1576-82.
Journal code: KCV, 0113724, ISSN: 0022-538X

I 9 ANSWER 22 OF 40 MEDLINE

II Differential transactivation of the intercellular adhesion molecule 1 gene

promoted by Tax1 and Tax2 of human T-cell leukemia viruses
SO JOURN AL OF VIROLOGY (1996 Dec) 70 (12) 8508-17
Journal code: KCV: 0113724 ISSN: 0022-538X

I 9 ANSWER 23 OF 40 MEDLINE
I1 Ik-1-2 prevents CD95 (Fas, Apo-1)-induced degradation of lamin B and
poly (ADP-ribose) polymerase and restores the NF-kappaB signaling pathway
SO JOURN AL OF BIOLOGY (1996 Nov 29) 271 (48) 5035-49
Journal code: HIV: 2985121R ISSN: 0021-9258

I 9 ANSWER 24 OF 40 MEDLINE
I1 Regulated **stable expression** and nuclear presence of
retrovirus double-stranded RNA-binding protein sigma 3 in **HeLa**
cells
SO JOURN AL OF VIROLOGY (1996 Jun) 70 (6) 3497-501
Journal code: KCV: 0113724 ISSN: 0022-538X

I 9 ANSWER 25 OF 40 MEDLINE
I1 Induced mitotic death of HeLa cells by abnormal expression of c-Ha-ras
SO NUCLEIC ACID RESEARCH (1996 Feb 1) 24 (2) 173-82
Journal code: 0400763 ISSN: 0027-5107

I 9 ANSWER 26 OF 40 MEDLINE
I1 Hepatitis B virus RNase activates NF-kappa B-dependent transcription through a
Raf-independent pathway
SO JOURN AL OF VIROLOGY (1996 Jan) 70 (1) 641-6
Journal code: KCV: 0113724 ISSN: 0022-538X

I 9 ANSWER 27 OF 40 MEDLINE
I1 Mapping the distribution of Golgi enzymes involved in the construction of
complex oligosaccharides
SO JOURN AL OF CELL SCIENCE (1995 Apr) 108 (Pt 4) 1617-27
Journal code: HNK: 0052457 ISSN: 0021-9543

I 9 ANSWER 28 OF 40 MEDLINE
I1 Transcriptional activation of human leukostatin (CD43) gene by Sp1 through
binding to a GGGTGG motif
SO JOURNAL OF CELL PHYSIOLOGY (1994 Jul 15) 223 (2) 19-27
Journal code: JML: 0107600 ISSN: 0014-2956

I 9 ANSWER 29 OF 40 MEDLINE
I1 Kin recognition between medial Golgi enzymes in HeLa cells
SO JOURNAL OF CELL BIOLOGY (1994 Feb 1) 13 (3) 562-74
Journal code: JMB: 8298664 ISSN: 0261-4189

I 9 ANSWER 30 OF 40 MEDLINE
I1 **Stable expression** of functional human cytomegalovirus
immediate-early proteins IE1 and IE2 in **HeLa** cells
SO INTERNATIONAL JOURNAL OF CANCER (1992) 34 (2) 94-104
Journal code: GW7: 0364265 ISSN: 0300-5526

I 9 ANSWER 31 OF 40 MEDLINE
I1 A high-level expression vector for human cells.
SO GENETICS (1992 Oct 21) 120 (2) 287-9

Journal code: JOP: 7706761 ISSN: 0378-1119

I 9 ANSWER 32 OF 40 MEDLINE
I1 Stable overexpression of human beta 2-adrenergic receptors in mammalian
cells
SO NUCLEIC ACID RESEARCH (1992 Apr 15) 20 (8) 2145-51
Journal code: NTQ: 0326264 ISSN: 0028-1298

I 9 ANSWER 33 OF 40 MEDLINE
I1 Expression of a cloned gamma-aminobutyric acid transporter in mammalian
cells
SO BIOCHEMISTRY (1992 Feb 25) 31 (7) 1974-9
Journal code: AOC: 0370623 ISSN: 0006-2960

I 9 ANSWER 34 OF 40 MEDLINE
I1 The alpha 1C-adrenergic receptor: characterization of signal transduction
pathways and mammalian tissue heterogeneity
SO MOLECULAR PHARMACOLOGY (1991 Nov) 40 (5) 619-26
Journal code: NGR: 0035623 ISSN: 0026-895X

I 9 ANSWER 35 OF 40 MEDLINE
I1 **Stable expression** of the human estrogen receptor in
HeLa cells by infection: effect of estrogen on cell proliferation
and c-myc expression
SO MOLECULAR AND CELLULAR PHYSIOLOGY (1991 Jun) 78 (1-2) 61-9
Journal code: J69: 7500844 ISSN: 0303-7207

I 9 ANSWER 36 OF 40 MEDLINE
I1 **Stable expression** of human tissue-type plasminogen
activator regulated by beta-actin promoter in three human cell lines:
HeLa, WI-38 VA13 and KMS-5
SO BIOCHEMICAL BIOPHYSICS ACTA (1991 Oct 8) 1090 (2) 210-22
Journal code: AOW: 0217513 ISSN: 0006-3002

I 9 ANSWER 37 OF 40 MEDLINE
I1 Cell type-specific expression of the human transferrin gene: Role of
promoter, negative, and enhancer elements
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1989 May 5) 264 (13) 7153-60
Journal code: HIV: 2985121R ISSN: 0021-9258

I 9 ANSWER 38 OF 40 MEDLINE
I1 Adeno-associated virus vector for high-frequency integration, expression,
and rescue of genes in mammalian cells
SO MOLECULAR AND CELLULAR BIOLOGY (1985 Nov) 5 (11) 3251-60
Journal code: NGY: 8109087 ISSN: 0270-7306

I 9 ANSWER 39 OF 40 MEDLINE
I1 Plasmid, phage, and genomic DNA-mediated transfer and expression of
prokaryotic and eukaryotic genes in cultured human cells
SO CYTOGENETICS AND CELL GENETICS (1984) 38 (3) 227-34
Journal code: DXK: 0367735 ISSN: 0301-0171

I 9 ANSWER 40 OF 40 MEDLINE

11 The IIIA-dependent expression of testis-organizing H-Y antigen by human male cells
SO CETF 01978 Mar 13 (3) 509-13
Journal code CQ4 0413066 ISSN 0092-8674

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431478 RECEPTORS
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(RECEPTOR OR RECEPTORS)

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111 619 AND110

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111 ANSWER 1 OF 6 MEDLINE
11 The human cytomegalovirus 1528 protein is located in endocytic vesicles and undergoes constitutive endocytosis and recycling.
SO MOLECULAR BIOLOGY OF THE CELL (2001 Jun) 12 (6) 1737-49
Journal code BMJ 09201390 ISSN 1059-1524

111 ANSWER 2 OF 6 MEDLINE
11 Hepatitis C virus core protein binds to the cytoplasmic domain of tumor necrosis factor (TNF) receptor 1 and enhances TNF-induced apoptosis
SO JOURNAL OF VIROLOGY (1998 May) 72 (5) 3691-7
Journal code KCV 0115724 ISSN 0022-538X

111 ANSWER 3 OF 6 MEDLINE
11 Visualization of agonist-induced sequestration and down-regulation of a green fluorescent protein-tagged beta2-adrenergic receptor.
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1998 Jan 2) 273 (1) 322-8
Journal code HJV 2985121R ISSN 0021-9258

111 ANSWER 4 OF 6 MEDLINE
11 Stable overexpression of human beta 2-adrenergic receptors in mammalian cells
SO NATURE SCIENTIFIC RESEARCH ARCHIVES OF PHARMACOLOGY (1992 Apr) 345 (4) 444-51
Journal code NIQ 0326264 ISSN 0028-1298

111 ANSWER 5 OF 6 MEDLINE
11 The alpha 1C-adrenergic receptor: characterization of signal transduction pathways and mammalian tissue heterogeneity.
SO MOLECULAR PHARMACOLOGY (1991 Nov) 40 (5) 619-26
Journal code NGR 0035623 ISSN 0026-895X

111 ANSWER 6 OF 6 MEDLINE
11 Stable expression of the human estrogen receptor in HeLa cells by infection: effect of estrogen on cell proliferation and c-myc expression
SO MOLECULAR AND CELLULAR PHARMACOLOGY (1991 Mar) 78 (1-2) 61-9

Journal code F69 7500844 ISSN 0303-7207

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12 4938 S VEGF
13 4511 AND12
14 2843 S H VEG
15 484 S ELK-1
16 12514 AND15
17 36423 SHELA
18 13478 STABLE EXPRESSION
19 46817(S)18
110 554812 S RECEPTOR
111 6519 AND110
112 484 S ELK-1

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113 517 AND112

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113 ANSWER 1 OF 5 MEDLINE
11 HIF-1-trans-activating (Tat) protein: both a target and a tool in therapeutic approaches.
SO BIOCHEMICAL PHARMACOLOGY (1999 Nov 15) 58 (10) 1521-8 Ref 89
Journal code 974 0101032 ISSN 0006-2952

113 ANSWER 2 OF 5 MEDLINE
11 Differential transcriptional regulation of the two vascular endothelial growth factor receptor genes, Flt-1, but not Flk-1
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Sep 19) 272 (18) 23650-67
Journal code HJV 2985121R ISSN 0021-9258

113 ANSWER 3 OF 5 MEDLINE
11 Nuclear protein interactions with the human KDR Flk-1 promoter in vivo. Regulation of Sp1 binding is associated with cell type-specific expression.
SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Mar 28) 272 (3) 8410-6
Journal code HJV 2985121R ISSN 0021-9258

113 ANSWER 4 OF 5 MEDLINE

11 Heterodimers of placenta growth factor vascular endothelial growth factor
 endothelial activity, tumor cell expression, and high affinity binding to
 Flk-1 KDR

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Feb 9) 271 (6) 3154-62
 Journal code: JMV: 2985121R ISSN: 0021-9258

113 ANSWER 5 OF 5 MEDLINE

11 Vascular endothelial growth factor and its receptors

SOURCE: PROGRESS IN GROWTH FACTOR RESEARCH ARCH, (1994) 5 (1) 89-97 Ref: 51
 Journal code: AGS: 8912757 ISSN: 0955-2235

abstracts

113 ANSWER 4 OF 5 MEDLINE

ACCESSION NUMBER: 96216393 MEDLINE

DOCUMENT NUMBER: 96216393 PubMed ID: 8621715

TITLE: Heterodimers of placenta growth factor vascular endothelial
 growth factor: endothelial activity, tumor cell expression,
 and high affinity binding to Flk-1 KDR

AUTHOR: Cao Y, Chen H, Zhou L, Chiang M K, Anand-Apte B, Weinthebe
 J A, Wang Y, Fang F, Jiang J G, Tsang M L

CORPORATE SOURCE: Department of Surgery, Harvard Medical School, Boston
 Massachusetts 02115, USA

CONTROL NUMBER: P01-CA45548 (NCI)

SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Feb 9) 271 (6)
 3154-62

Journal code: JMV: 2985121R ISSN: 0021-9258

PUBLICATION: United States
 Journal Article (JOURN AL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199606

ENTRY DATE: Entered STN: 19960627

Last Updated on STN: 20000303

Entered Medline: 19960619

AB: Here we show that the Escherichia coli expressed monomers of placenta
 growth factor (PlGF)129 and vascular endothelial growth factor (VEGF)165
 can be re-folded in vitro to form PlGF VEGF heterodimers. The purified
 recombinant PlGF VEGF heterodimers and VEGF homodimers have potent
 mitogenic and chemotactic effects on endothelial cells. However, PlGF VEGF
 heterodimers display 20-50-fold less mitogenic activity than VEGF165
 homodimers. In contrast, PlGF129 homodimers have little or no effect in
 these in vitro assays. We also demonstrate the presence of natural
 PlGF VEGF heterodimers in the conditioned media of various human in nor
 cell lines. While PlGF VEGF heterodimers bind with high affinity to a
 soluble Flk-1 KDR receptor, PlGF129 homodimers fail to
 bind to this receptor. Cross-linking of 125I-ligands to human umbilical
 vein endothelial cells reveals that PlGF VEGF heterodimers and VEGF165
 homodimers, but not PlGF129 homodimers, form complexes with membrane
 receptors. VEGF165 homodimers and PlGF VEGF heterodimers stimulate
 tyrosine phosphorylation of a 220-kDa protein, the expected size for the

KDR receptor in human umbilical vein endothelial cells, whereas PlGF129
 homodimers are unable to induce tyrosine phosphorylation of this protein.
 These data indicate that PlGF may modulate VEGF-induced angiogenesis by
 the formation of PlGF VEGF heterodimers in cells producing both factors

113 ANSWER 5 OF 5 MEDLINE

ACCESSION NUMBER: 94257859 MEDLINE

DOCUMENT NUMBER: 94257859 PubMed ID: 7515293

TITLE: Vascular endothelial growth factor and its receptors

AUTHOR: Neufeld G, Tessler S, Gilay-Goren H, Cohen T, Levi B Z
 SOURCE: PROGRESS IN GROWTH FACTOR RESEARCH ARCH, (1994) 5 (1) 89-97
 Ref: 61

Journal code: AGS: 8912757 ISSN: 0955-2235

PUBLICATION: ENGLAND: United Kingdom
 Journal Article (JOURN AL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199407

ENTRY DATE: Entered STN: 19940714
 Last Updated on STN: 20000303
 Entered Medline: 19940707

AB: Vascular endothelial growth factor (VEGF) is a highly specific mitogen for
 vascular endothelial cells and an angiogenic factor that is structurally
 related to platelet-derived growth factor (PDGF). It is also known as the
 vascular permeability factor (VPF) because it efficiently potentiates the
 permeabilization of blood vessels. Five types of VEGF mRNA encoding VEGF
 species which differ in their molecular mass and in their biological
 properties are transcribed from a single gene as a result of alternative
 splicing. VEGFs are produced and secreted by several normal cell types
 including smooth muscle, fetal and adrenal cortex cells. VEGFs are also
 produced by different tumorigenic cells, and appear to play a major role
 in tumour angiogenesis. Antibodies directed against VEGF can inhibit the
 growth of a variety of VEGF-producing tumours. Of the various VEGF
 species, the best characterized is the 165 amino acid long form (VEGF165).
 VEGF165 is a heparin binding growth factor, and its interaction with VEGF
 receptors on the cell surface of vascular endothelial cells depends on the
 presence of heparin-like molecules. Several cell types which do not
 proliferate in response to VEGF such as bovine corneal endothelial cells,
 HeLa cells and human melanoma cells also express cell surface VEGF
 receptors, but the function of the VEGF receptors in these cells is
 unclear. Recently, the tyrosine-kinase receptors encoded by the flk and
 KDR Flk-1 genes were found to function as VEGF165
 receptors.

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673 F.R.

(F.R. OR F.R.S.)

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115 484 F.R.

(F.R. OR F.R.S.)

STB-15

116 281146 S0115

doi:10.1-28

116 ANSWER 1 OF 28 MEDLINE

11 Antitumor activity of cytotoxic T lymphocytes engineered to target

vascular endothelial growth factor receptors.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF

AMERICA

AMERICAN (2002 May 14) 99 (10) 7009-14

Journal code: 7505876 ISSN: 0027-8424

116 ANSWER 2 OF 28 MEDLINE

11 Apoptogenic and astroglial responses to vascular endothelial growth factor

administration in adult rat brain

SO NEUROSCIENCE (2002) 110 (4) 589-604

Journal code: 7605074 ISSN: 0306-4522

116 ANSWER 3 OF 28 MEDLINE

11 Controlled Expansion of Human Endothelial Cell Populations by

Cytokine-Based Reversible Immobilization.

SO HUMAN GENE THERAPY (2002 Jan) 13 (2) 321-34

Journal code: 9008950 ISSN: 1043-0342

116 ANSWER 4 OF 28 MEDLINE

11 Expression of vascular endothelial growth factor in a human

hemangioendothelioma cell line (HSE-ELAS).

SO ARTERIOVENOUS DIALYSIS (2001 Jun) 29 (6) 796-801

Journal code: 8000462 ISSN: 0340-3696

116 ANSWER 5 OF 28 MEDLINE

11 Activation of endothelial cell mitogen activated protein kinase ERK1/2

by extracellular HIV-1 Tat protein

SO JOURNAL OF CELL PHYSIOLOGY (2001) 8 (1) 65-74

Journal code: 9412590 ISSN: 1062-3329

116 ANSWER 6 OF 28 MEDLINE

11 Angiogenesis inhibitors in the treatment of lung cancer

SO LUNG CANCER (2001 Dec) 34 Suppl 3 S84-9 Ref: 62

Journal code: 8800805 ISSN: 0169-5002

116 ANSWER 7 OF 28 MEDLINE

11 Caveolin-1 null mice are viable but show evidence of hyperproliferative

and vascular abnormalities.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (2001 Oct 12) 276 (41) 38121-38

Journal code: 2985121R ISSN: 0021-9258

116 ANSWER 8 OF 28 MEDLINE

11 Vascular endothelial growth factor enhances glomerular capillary repair

and accelerates resolution of experimentally induced glomerulonephritis

SO AMERICAN JOURNAL OF PATHOLOGY (2001 Aug) 159 (2) 599-608

Journal code: 38510370502 ISSN: 0002-9440

116 ANSWER 9 OF 28 MEDLINE

11 Increased vascular endothelial growth factor 165 binding to kinase insert

domain-containing receptor after infection of human endothelial cells by

recombinant adenovirus encoding the VEGF(165) gene.

SO CIRCULATION (2001 Apr 10) 103 (14) 1887-92

Journal code: DAW: 0147763 ISSN: 1524-4539

116 ANSWER 10 OF 28 MEDLINE

11 Extracellular matrix protein 1 (ECM1) has angiogenic properties and is

expressed by breast tumor cells.

SO EXPRESSION JOURNAL (2001 Apr) 15 (6) 988-94

Journal code: FAS: 8804484 ISSN: 0892-6638

116 ANSWER 11 OF 28 MEDLINE

11 Release and complex formation of soluble VEGFR-1 from endothelial cells

and biological fluids.

SO LABORATORY INVESTIGATION (2000 Apr) 80 (4) 443-54

Journal code: KZ4: 0376617 ISSN: 0023-6837

116 ANSWER 12 OF 28 MEDLINE

11 Vascular endothelial growth factor and interleukin-6 in paracrine

tumor-stromal cell interactions in multiple myeloma.

SO BLOOD (2000 Apr 15) 95 (8) 2630-6

Journal code: A86: 7603509 ISSN: 0006-4971

116 ANSWER 13 OF 28 MEDLINE

11 HGP1PA, a protein tyrosine phosphatase that regulates vascular endothelial

growth factor receptor-mediated signal transduction and biological

activity.

SO JOURNAL OF BIOLOGICAL CHEMISTRY (1999 Dec 31) 274 (53) 38183-8

Journal code: HNV: 2985121R ISSN: 0021-9258

116 ANSWER 14 OF 28 MEDLINE

11 Roles of growth factors in mediating mesenchymal influence on the

cytodifferentiation of the Dunning prostatic adenocarcinoma

SO TUMOR BIOLOGY (2000 Jan-Feb) 21 (1) 21-32

Journal code: TTB: 8409922 ISSN: 0289-5447

116 ANSWER 15 OF 28 MEDLINE

11 Vascular endothelial growth factor induces nephrogenesis and

neovascularization.

SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY (1999 Oct 10) 10 (10) 2125-34

Journal code: A6H: 9013836 ISSN: 1046-6673

I16. ANSWER 16 OF 28 MEDLINE
 IT Inhibition of hepatic stellate cell contraction during activation in vitro by vascular endothelial growth factor in association with upregulation of E1 tyrosine kinase receptor family, E1 T-1.
 SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS (1999 May 19) 258(3) 674-8
 Journal code: VYR 0372516 ISSN: 0006-291X

I16. ANSWER 17 OF 28 MEDLINE
 IT Vascular endothelial growth factor chimera toxin is highly active against endothelial cells
 SO CANCER RESEARCH (1999 Jan 1) 59(1) 183-8
 Journal code: CNE 2984705R ISSN: 0008-5472

I16. ANSWER 18 OF 28 MEDLINE
 IT Role of vascular endothelial growth factor on erythropoietin-related endothelial cell proliferation
 SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY (1998 Nov) 9(11) 1998-2004
 Journal code: AGH 9013836 ISSN: 1046-6673

I16. ANSWER 19 OF 28 MEDLINE
 IT Patterns of brain angiogenesis after vascular endothelial growth factor administration in vitro and in vivo
 SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA (1998 Jun 9) 95(12) 7086-91
 Journal code: PV3 7505876 ISSN: 0027-8424

I16. ANSWER 20 OF 28 MEDLINE
 IT Activation of Etk-1 KDR mediates angiogenesis but not by potentiation
 SO CARDIOVASCULAR RESEARCH ARCHIVE (1997 Nov) 36(2) 276-81
 Journal code: COR 0077427 ISSN: 0008-6363

I16. ANSWER 21 OF 28 MEDLINE
 IT Inhibition of tumor growth by targeting tumor endothelium using a soluble vascular endothelial growth factor receptor
 SO CELL GROWTH AND DIFFERENTIATION (1998 Jan) 9(1) 49-58
 Journal code: NYE 9100024 ISSN: 1044-9523

I16. ANSWER 22 OF 28 MEDLINE
 IT Up-regulation of Etk-1 vascular endothelial growth factor receptor 2 by its ligand in a cerebral slice culture system
 SO CANCER RESEARCH ARCHIVE (1997 Sep 1) 57(17) 3852-9
 Journal code: CNE 2984705R ISSN: 0008-5472

I16. ANSWER 23 OF 28 MEDLINE
 IT Extracellular cleavage of the vascular endothelial growth factor 189-a-mono acid form by urokinase is required for its mitogenic effect
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 May 19) 272(50) 13390-6
 Journal code: HHV 2985121R ISSN: 0021-9258

I16. ANSWER 24 OF 28 MEDLINE
 IT VEGF145, a secreted vascular endothelial growth factor isoform that binds to extracellular matrix
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1997 Mar 14) 272(6) 7151-8
 Journal code: HHV 2985121R ISSN: 0021-9258

I16. ANSWER 25 OF 28 MEDLINE
 IT Heterodimers of placenta growth factor vascular endothelial growth factor Endothelial activity, tumor cell expression, and high affinity binding to Etk-1 KDR
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1996 Feb 9) 271(6) 3154-62
 Journal code: HHV 2985121R ISSN: 0021-9258

I16. ANSWER 26 OF 28 MEDLINE
 IT Vascular endothelial growth factor-toxin conjugate specifically inhibits KDR Etk-1-positive endothelial cell proliferation in vitro and angiogenesis in vivo
 SO CANCER RESEARCH ARCHIVE (1996 Mar 15) 56(6) 1324-30
 Journal code: CNE 2984705R ISSN: 0008-5472

I16. ANSWER 27 OF 28 MEDLINE
 IT Mycoid progenitor cell regulatory effects of vascular endothelial cell growth factor
 SO INTERNATIONAL JOURNAL OF HEMATOLOGY (1995 Dec) 62(4) 203-15
 Journal code: AVE 911627 ISSN: 0925-5710

I16. ANSWER 28 OF 28 MEDLINE
 IT Placenta growth factor: Potentiation of vascular endothelial growth factor bioactivity in vitro and in vivo, and high affinity binding to Etk-1 but not to Etk-1 KDR
 SO JOURNAL OF BIOLOGICAL CHEMISTRY (1994 Oct 14) 269(41) 25646-54
 Journal code: HHV 2985121R ISSN: 0021-9258

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